

APPENDIX H

Air Quality Modeling Results

Alternative A Output

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URBEMIS 2002 For windows 8.7.0

File Name: C:\Program Files\URBEMIS 2002 Version
8.7\Projects2k2\Alternative A.urb
Project Name: Alternative A
Project Location: Mountain Counties and Rural Counties
On-Road Motor Vehicle Emissions Based on EMFAC2002 version 2.2

SUMMARY REPORT (Pounds/Day - Summer)

CONSTRUCTION EMISSION ESTIMATES

| PM10 *** 2006 *** | PM10 *** | ROG | NOx | CO | SO2 | PM10 TOTAL |
|------------------------------|-------------|-------|--------|--------|------|---------------|
| EXHAUST | DUST | | | | | |
| TOTALS (lbs/day,unmitigated) | | 18.82 | 128.24 | 152.12 | 0.00 | 35.29 |
| 5.28 | 30.01 | | | | | |

| PM10 *** 2007 *** | PM10 *** | ROG | NOx | CO | SO2 | PM10 TOTAL |
|------------------------------|-------------|-------|--------|--------|------|---------------|
| EXHAUST | DUST | | | | | |
| TOTALS (lbs/day,unmitigated) | | 37.76 | 111.79 | 136.10 | 0.00 | 4.62 |
| 4.43 | 0.19 | | | | | |

AREA SOURCE EMISSION ESTIMATES

| | ROG | NOx | CO | SO2 | PM10 |
|------------------------------|------|------|------|------|------|
| TOTALS (lbs/day,unmitigated) | 7.81 | 1.15 | 1.21 | 0.00 | 0.00 |

OPERATIONAL (VEHICLE) EMISSION ESTIMATES

| | ROG | NOx | CO | SO2 | PM10 |
|------------------------------|-------|-------|--------|------|-------|
| TOTALS (lbs/day,unmitigated) | 12.27 | 21.79 | 158.42 | 0.10 | 17.31 |

SUM OF AREA AND OPERATIONAL EMISSION ESTIMATES

| | ROG | NOx | CO | SO2 | PM10 |
|------------------------------|-------|-------|--------|------|-------|
| TOTALS (lbs/day,unmitigated) | 20.07 | 22.94 | 159.63 | 0.10 | 17.31 |

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URBEMIS 2002 For windows 8.7.0

File Name: C:\Program Files\URBEMIS 2002 Version
8.7\Projects2k2\Alternative A.urb
Project Name: Alternative A
Project Location: Mountain Counties and Rural Counties
On-Road Motor Vehicle Emissions Based on EMFAC2002 version 2.2

Alternative A Output

SUMMARY REPORT (Pounds/Day - Winter)

CONSTRUCTION EMISSION ESTIMATES

| PM10 *** 2006 *** | PM10 *** 2006 *** | ROG | NOX | CO | SO2 | PM10 TOTAL |
|------------------------------|------------------------------|-------|--------|--------|------|---------------|
| EXHAUST | DUST | | | | | |
| TOTALS (lbs/day,unmitigated) | TOTALS (lbs/day,unmitigated) | 18.82 | 128.24 | 152.12 | 0.00 | 35.29 |
| 5.28 | 30.01 | | | | | |

| PM10 *** 2007 *** | PM10 *** 2007 *** | ROG | NOX | CO | SO2 | PM10 TOTAL |
|------------------------------|------------------------------|-------|--------|--------|------|---------------|
| EXHAUST | DUST | | | | | |
| TOTALS (lbs/day,unmitigated) | TOTALS (lbs/day,unmitigated) | 37.76 | 111.79 | 136.10 | 0.00 | 4.62 |
| 4.43 | 0.19 | | | | | |

AREA SOURCE EMISSION ESTIMATES

| | ROG | NOX | CO | SO2 | PM10 |
|------------------------------|------|------|------|------|------|
| TOTALS (lbs/day,unmitigated) | 7.75 | 1.99 | 0.85 | 0.01 | 0.07 |

OPERATIONAL (VEHICLE) EMISSION ESTIMATES

| | ROG | NOX | CO | SO2 | PM10 |
|------------------------------|-------|-------|--------|------|-------|
| TOTALS (lbs/day,unmitigated) | 15.49 | 26.14 | 186.55 | 0.10 | 17.31 |

SUM OF AREA AND OPERATIONAL EMISSION ESTIMATES

| | ROG | NOX | CO | SO2 | PM10 |
|------------------------------|-------|-------|--------|------|-------|
| TOTALS (lbs/day,unmitigated) | 23.24 | 28.13 | 187.39 | 0.10 | 17.38 |

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URBEMIS 2002 For windows 8.7.0

File Name: C:\Program Files\URBEMIS 2002 Version
8.7\Projects2k2\Alternative A.urb
Project Name: Alternative A
Project Location: Mountain Counties and Rural Counties
On-Road Motor Vehicle Emissions Based on EMFAC2002 version 2.2

DETAIL REPORT (Pounds/Day - Winter)

Construction Start Month and Year: May, 2006
Construction Duration: 15
Total Land Use Area to be Developed: 12.2 acres
Maximum Acreage Disturbed Per Day: 3 acres
Single Family Units: 0 Multi-Family Units: 152
Retail/Office/Institutional/Industrial Square Footage: 0

CONSTRUCTION EMISSION ESTIMATES UNMITIGATED (lbs/day)

| | | Alternative A Output | | | | PM10 | PM10 |
|----------------------------------|----------------------------|----------------------|--------|--------|------|-------|------|
| PM10 | Source | ROG | NOx | CO | SO2 | TOTAL | |
| EXHAUST | DUST | | | | | | |
| *** 2006*** | | | | | | | |
| Phase 1 - Demolition Emissions | | | | | | | |
| | Fugitive Dust | - | - | - | - | 0.00 | |
| - | 0.00 | | | | | | |
| | Off-Road Diesel | 0.00 | 0.00 | 0.00 | - | 0.00 | |
| 0.00 | 0.00 | | | | | | |
| | On-Road Diesel | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 0.00 | 0.00 | | | | | | |
| | Worker Trips | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 0.00 | 0.00 | | | | | | |
| | Maximum lbs/day | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 0.00 | 0.00 | | | | | | |
| Phase 2 - Site Grading Emissions | | | | | | | |
| | Fugitive Dust | - | - | - | - | 30.00 | |
| - | 30.00 | | | | | | |
| | Off-Road Diesel | 18.64 | 127.87 | 148.05 | - | 5.27 | |
| 5.27 | 0.00 | | | | | | |
| | On-Road Diesel | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 0.00 | 0.00 | | | | | | |
| | Worker Trips | 0.18 | 0.37 | 4.07 | 0.00 | 0.02 | |
| 0.01 | 0.01 | | | | | | |
| | Maximum lbs/day | 18.82 | 128.24 | 152.12 | 0.00 | 35.29 | |
| 5.28 | 30.01 | | | | | | |
| Phase 3 - Building Construction | | | | | | | |
| | Bldg Const Off-Road Diesel | 10.88 | 81.56 | 81.47 | - | 3.62 | |
| 3.62 | 0.00 | | | | | | |
| | Bldg Const Worker Trips | 0.36 | 0.22 | 4.55 | 0.00 | 0.09 | |
| 0.00 | 0.09 | | | | | | |
| | Arch Coatings Off-Gas | 0.00 | - | - | - | - | |
| - | - | | | | | | |
| | Arch Coatings Worker Trips | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 0.00 | 0.00 | | | | | | |
| | Asphalt Off-Gas | 0.00 | - | - | - | - | |
| - | - | | | | | | |
| | Asphalt Off-Road Diesel | 0.00 | 0.00 | 0.00 | - | 0.00 | |
| 0.00 | 0.00 | | | | | | |
| | Asphalt On-Road Diesel | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 0.00 | 0.00 | | | | | | |
| | Asphalt Worker Trips | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 0.00 | 0.00 | | | | | | |
| | Maximum lbs/day | 11.23 | 81.78 | 86.02 | 0.00 | 3.72 | |
| 3.63 | 0.09 | | | | | | |
| | Max lbs/day all phases | 18.82 | 128.24 | 152.12 | 0.00 | 35.29 | |
| 5.28 | 30.01 | | | | | | |
| *** 2007*** | | | | | | | |
| Phase 1 - Demolition Emissions | | | | | | | |
| | Fugitive Dust | - | - | - | - | 0.00 | |
| - | 0.00 | | | | | | |
| | Off-Road Diesel | 0.00 | 0.00 | 0.00 | - | 0.00 | |
| 0.00 | 0.00 | | | | | | |
| | On-Road Diesel | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 0.00 | 0.00 | | | | | | |
| | Worker Trips | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 0.00 | 0.00 | | | | | | |

| | | Alternative A Output | | | | |
|----------------------------------|-------|----------------------|--------|------|------|------|
| Maximum lbs/day | | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | | | | | |
| Phase 2 - Site Grading Emissions | | | | | | |
| Fugitive Dust | - | - | - | - | - | 0.00 |
| - 0.00 | | | | | | |
| Off-Road Diesel | 0.00 | 0.00 | 0.00 | - | - | 0.00 |
| 0.00 0.00 | | | | | | |
| On-Road Diesel | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 0.00 0.00 | | | | | | |
| Worker Trips | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 0.00 0.00 | | | | | | |
| Maximum lbs/day | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 0.00 0.00 | | | | | | |
| Phase 3 - Building Construction | | | | | | |
| Bldg Const Off-Road Diesel | 10.88 | 78.23 | 83.69 | - | - | 3.30 |
| 3.30 0.00 | | | | | | |
| Bldg Const Worker Trips | 0.33 | 0.20 | 4.28 | 0.00 | 0.00 | 0.09 |
| 0.00 0.09 | | | | | | |
| Arch Coatings Off-Gas | 20.61 | - | - | - | - | - |
| - - | | | | | | |
| Arch Coatings Worker Trips | 0.32 | 0.17 | 3.61 | 0.00 | 0.00 | 0.09 |
| 0.00 0.09 | | | | | | |
| Asphalt Off-Gas | 0.28 | - | - | - | - | - |
| - - | | | | | | |
| Asphalt Off-Road Diesel | 5.25 | 31.62 | 44.62 | - | - | 1.09 |
| 1.09 0.00 | | | | | | |
| Asphalt On-Road Diesel | 0.08 | 1.59 | 0.31 | 0.00 | 0.00 | 0.04 |
| 0.04 0.00 | | | | | | |
| Asphalt Worker Trips | 0.02 | 0.01 | 0.26 | 0.00 | 0.00 | 0.01 |
| 0.00 0.01 | | | | | | |
| Maximum lbs/day | 37.76 | 111.79 | 136.10 | 0.00 | 0.00 | 4.62 |
| 4.43 0.19 | | | | | | |
| Max lbs/day all phases | 37.76 | 111.79 | 136.10 | 0.00 | 0.00 | 4.62 |
| 4.43 0.19 | | | | | | |

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Phase 1 - Demolition Assumptions: Phase Turned OFF

Phase 2 - Site Grading Assumptions
Start Month/Year for Phase 2: May '06
Phase 2 Duration: 4.0 months
On-Road Truck Travel (VMT): 0
Off-Road Equipment

| No. | Type | Horsepower | Load Factor | Hours/Day |
|-----|--------------------------|------------|-------------|-----------|
| 1 | Concrete/Industrial saws | 84 | 0.730 | 10.5 |
| 2 | Excavators | 180 | 0.580 | 10.5 |
| 1 | Rough Terrain Forklifts | 94 | 0.475 | 10.5 |
| 1 | Rubber Tired Dozers | 352 | 0.590 | 10.5 |
| 1 | Rubber Tired Loaders | 165 | 0.465 | 10.5 |
| 1 | Scrapers | 313 | 0.660 | 10.5 |

Phase 3 - Building Construction Assumptions

Alternative A Output

Start Month/Year for Phase 3: Sep '06

Phase 3 Duration: 11.0 months

Start Month/Year for SubPhase Building: Sep '06

SubPhase Building Duration: 10.2 months

Off-Road Equipment

| No. | Type | Horsepower | Load Factor | Hours/Day |
|-----|--------------------------|------------|-------------|-----------|
| 1 | Concrete/Industrial saws | 84 | 0.730 | 10.5 |
| 1 | Cranes | 190 | 0.430 | 10.5 |
| 2 | Off Highway Tractors | 255 | 0.410 | 10.5 |
| 1 | Rough Terrain Forklifts | 94 | 0.475 | 10.5 |
| 2 | Tractor/Loaders/Backhoes | 79 | 0.465 | 10.5 |

Start Month/Year for SubPhase Architectural Coatings: Jul '07

SubPhase Architectural Coatings Duration: 1.0 months

Start Month/Year for SubPhase Asphalt: Jul '07

SubPhase Asphalt Duration: 0.8 months

Acres to be Paved: 1.9

Off-Road Equipment

| No. | Type | Horsepower | Load Factor | Hours/Day |
|-----|---------|------------|-------------|-----------|
| 1 | Graders | 174 | 0.575 | 10.5 |
| 1 | Pavers | 132 | 0.590 | 10.5 |
| 1 | Rollers | 114 | 0.430 | 10.5 |

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AREA SOURCE EMISSION ESTIMATES (Winter Pounds per Day, Unmitigated)

| Source | ROG | NOX | CO | SO2 | PM10 |
|-----------------------------------|------|------|------|------|------|
| Natural Gas | 0.09 | 1.15 | 0.49 | 0 | 0.00 |
| Hearth | 0.05 | 0.84 | 0.36 | 0.01 | 0.07 |
| Landscaping - No winter emissions | | | | | |
| Consumer Prdcts | 7.44 | - | - | - | - |
| Architectural Coatings | 0.17 | - | - | - | - |
| TOTALS(lbs/day,unmitigated) | 7.75 | 1.99 | 0.85 | 0.01 | 0.07 |

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UNMITIGATED OPERATIONAL EMISSIONS

| | ROG | NOX | CO | SO2 | PM10 |
|---------------------------|-------|-------|--------|------|-------|
| Apartments low rise | 15.49 | 26.14 | 186.55 | 0.10 | 17.31 |
| TOTAL EMISSIONS (lbs/day) | 15.49 | 26.14 | 186.55 | 0.10 | 17.31 |

Does not include correction for passby trips.

Does not include double counting adjustment for internal trips.

OPERATIONAL (Vehicle) EMISSION ESTIMATES

Analysis Year: 2007 Temperature (F): 40 Season: Winter

EMFAC Version: EMFAC2002 (9/2002)

Alternative A Output

Summary of Land Uses:

| Unit Type | Acreage | Trip Rate | No. Units | Total Trips |
|---------------------|---------|--------------------------|------------------------------|----------------|
| Apartments low rise | 12.20 | 7.00 trips/dwelling unit | 152.00 | 1,064.00 |
| | | | Sum of Total Trips | 1,064.00 |
| | | | Total Vehicle Miles Traveled | 11,367.88 |

Vehicle Assumptions:

Fleet Mix:

| Vehicle Type | Percent Type | Non-Catalyst | Catalyst | Diesel |
|---------------------------|--------------|--------------|----------|--------|
| Light Auto | 55.20 | 1.80 | 97.80 | 0.40 |
| Light Truck < 3,750 lbs | 15.10 | 3.30 | 94.00 | 2.70 |
| Light Truck 3,751- 5,750 | 16.10 | 1.90 | 96.90 | 1.20 |
| Med Truck 5,751- 8,500 | 7.10 | 1.40 | 95.80 | 2.80 |
| Lite-Heavy 8,501-10,000 | 1.10 | 0.00 | 81.80 | 18.20 |
| Lite-Heavy 10,001-14,000 | 0.40 | 0.00 | 50.00 | 50.00 |
| Med-Heavy 14,001-33,000 | 1.00 | 0.00 | 20.00 | 80.00 |
| Heavy-Heavy 33,001-60,000 | 0.90 | 0.00 | 11.10 | 88.90 |
| Line Haul > 60,000 lbs | 0.00 | 0.00 | 0.00 | 100.00 |
| Urban Bus | 0.10 | 0.00 | 0.00 | 100.00 |
| Motorcycle | 1.70 | 82.40 | 17.60 | 0.00 |
| School Bus | 0.10 | 0.00 | 0.00 | 100.00 |
| Motor Home | 1.20 | 8.30 | 83.30 | 8.40 |

Travel Conditions

| | Residential | | | Commercial | | |
|---------------------------|---------------|---------------|----------------|------------|----------|----------|
| | Home- Work | Home- Shop | Home- Other | Commute | Non-Work | Customer |
| Urban Trip Length (miles) | 10.8 | 7.3 | 7.5 | 9.5 | 7.4 | 7.4 |
| Rural Trip Length (miles) | 16.8 | 7.1 | 7.9 | 14.7 | 6.6 | 6.6 |
| Trip Speeds (mph) | 35.0 | 35.0 | 35.0 | 35.0 | 35.0 | 35.0 |
| % of Trips - Residential | 32.9 | 18.0 | 49.1 | | | |

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Changes made to the default values for Land Use Trip Percentages

The Trip Rate and/or Acreage values for Apartments low rise have changed from the defaults 6.9/9.5 to 7.00/12.2

Changes made to the default values for Construction

The user has overridden the Default Phase Lengths

Architectural Coatings: # ROG/ft2 (residential) changed from 0.0185 to 0.0013

Architectural Coatings: # ROG/ft2 (non-res) changed from 0.0185 to 0.0013

Changes made to the default values for Area

The wood stove percentage changed from 35 to 0.

The wood fireplace percentage changed from 10 to 0.

The natural gas fireplace percentage changed from 55 to 100.

The landscape year changed from 2005 to 2007.

The residential Arch. Coatings ROG emission factor changed from 0.0185 to 0.0013.

Alternative A Output

The nonresidential Arch. Coatings ROG emission factor changed from 0.0185 to 0.0013.

Changes made to the default values for Operations

The operational emission year changed from 2005 to 2007.

The operational winter selection item changed from 2 to 1.

The operational summer selection item changed from 4 to 3.

The home based work selection item changed from 8 to 7.

The home based shopping selection item changed from 8 to 7.

The home based other selection item changed from 8 to 7.

The commercial based commute selection item changed from 8 to 7.

The commercial based non-work selection item changed from 8 to 7.

The commercial based customer selection item changed from 8 to 7.

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URBEMIS 2002 For Windows 8.7.0

File Name: C:\Program Files\URBEMIS 2002 Version
8.7\Projects2k2\Alternative A.urb
Project Name: Alternative A
Project Location: Mountain Counties and Rural Counties
On-Road Motor Vehicle Emissions Based on EMFAC2002 version 2.2

DETAIL REPORT (Pounds/Day - Summer)

Construction Start Month and Year: May, 2006

Construction Duration: 15

Total Land Use Area to be Developed: 12.2 acres

Maximum Acreage Disturbed Per Day: 3 acres

Single Family Units: 0 Multi-Family Units: 152

Retail/Office/Institutional/Industrial Square Footage: 0

CONSTRUCTION EMISSION ESTIMATES UNMITIGATED (lbs/day)

| PM10 | | | | | | PM10 | PM10 |
|----------------------------------|-------|-------|--------|--------|------|-------|------|
| Source | | ROG | NOX | CO | SO2 | TOTAL | |
| EXHAUST | DUST | | | | | | |
| *** 2006*** | | | | | | | |
| Phase 1 - Demolition Emissions | | | | | | | |
| Fugitive Dust | | - | - | - | - | 0.00 | |
| - | 0.00 | | | | | | |
| Off-Road Diesel | | 0.00 | 0.00 | 0.00 | - | 0.00 | |
| 0.00 | 0.00 | | | | | | |
| On-Road Diesel | | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 0.00 | 0.00 | | | | | | |
| Worker Trips | | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 0.00 | 0.00 | | | | | | |
| Maximum lbs/day | | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 0.00 | 0.00 | | | | | | |
| Phase 2 - Site Grading Emissions | | | | | | | |
| Fugitive Dust | | - | | - | | 30.00 | |
| - | 30.00 | | | | | | |
| Off-Road Diesel | | 18.64 | 127.87 | 148.05 | - | 5.27 | |
| 5.27 | 0.00 | | | | | | |
| On-Road Diesel | | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 0.00 | 0.00 | | | | | | |

| | Alternative A Output | | | | |
|-----------------|----------------------|--------|--------|------|-------|
| Worker Trips | 0.18 | 0.37 | 4.07 | 0.00 | 0.02 |
| 0.01 0.01 | | | | | |
| Maximum lbs/day | 18.82 | 128.24 | 152.12 | 0.00 | 35.29 |
| 5.28 30.01 | | | | | |

| | | | | | |
|---------------------------------|-------|--------|--------|------|-------|
| Phase 3 - Building Construction | | | | | |
| Bldg Const Off-Road Diesel | 10.88 | 81.56 | 81.47 | - | 3.62 |
| 3.62 0.00 | | | | | |
| Bldg Const Worker Trips | 0.36 | 0.22 | 4.55 | 0.00 | 0.09 |
| 0.00 0.09 | | | | | |
| Arch Coatings Off-Gas | 0.00 | - | - | - | - |
| - | | | | | |
| Arch Coatings Worker Trips | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 0.00 0.00 | | | | | |
| Asphalt Off-Gas | 0.00 | - | - | - | - |
| - | | | | | |
| Asphalt Off-Road Diesel | 0.00 | 0.00 | 0.00 | - | 0.00 |
| 0.00 0.00 | | | | | |
| Asphalt On-Road Diesel | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 0.00 0.00 | | | | | |
| Asphalt Worker Trips | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 0.00 0.00 | | | | | |
| Maximum lbs/day | 11.23 | 81.78 | 86.02 | 0.00 | 3.72 |
| 3.63 0.09 | | | | | |
| Max lbs/day all phases | 18.82 | 128.24 | 152.12 | 0.00 | 35.29 |
| 5.28 30.01 | | | | | |

*** 2007***

| | | | | | |
|--------------------------------|------|------|------|------|------|
| Phase 1 - Demolition Emissions | | | | | |
| Fugitive Dust | - | - | - | - | 0.00 |
| - 0.00 | | | | | |
| Off-Road Diesel | 0.00 | 0.00 | 0.00 | - | 0.00 |
| 0.00 0.00 | | | | | |
| On-Road Diesel | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 0.00 0.00 | | | | | |
| Worker Trips | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 0.00 0.00 | | | | | |
| Maximum lbs/day | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 0.00 0.00 | | | | | |

| | | | | | |
|----------------------------------|------|------|------|------|------|
| Phase 2 - Site Grading Emissions | | | | | |
| Fugitive Dust | - | - | - | - | 0.00 |
| - 0.00 | | | | | |
| Off-Road Diesel | 0.00 | 0.00 | 0.00 | - | 0.00 |
| 0.00 0.00 | | | | | |
| On-Road Diesel | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 0.00 0.00 | | | | | |
| Worker Trips | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 0.00 0.00 | | | | | |
| Maximum lbs/day | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 0.00 0.00 | | | | | |

| | | | | | |
|---------------------------------|-------|-------|-------|------|------|
| Phase 3 - Building Construction | | | | | |
| Bldg Const Off-Road Diesel | 10.88 | 78.23 | 83.69 | - | 3.30 |
| 3.30 0.00 | | | | | |
| Bldg Const Worker Trips | 0.33 | 0.20 | 4.28 | 0.00 | 0.09 |
| 0.00 0.09 | | | | | |
| Arch Coatings Off-Gas | 20.61 | - | - | - | - |
| - | | | | | |
| Arch Coatings Worker Trips | 0.32 | 0.17 | 3.61 | 0.00 | 0.09 |
| 0.00 0.09 | | | | | |

| | | | | | | |
|-------------------------|------|----------------------|--------|--------|------|------|
| | | Alternative A Output | | | | |
| Asphalt Off-Gas | | 0.28 | - | - | - | - |
| Asphalt Off-Road Diesel | | 5.25 | 31.62 | 44.62 | - | 1.09 |
| 1.09 | 0.00 | | | | | |
| Asphalt On-Road Diesel | | 0.08 | 1.59 | 0.31 | 0.00 | 0.04 |
| 0.04 | 0.00 | | | | | |
| Asphalt Worker Trips | | 0.02 | 0.01 | 0.26 | 0.00 | 0.01 |
| 0.00 | 0.01 | | | | | |
| Maximum lbs/day | | 37.76 | 111.79 | 136.10 | 0.00 | 4.62 |
| 4.43 | 0.19 | | | | | |
| Max lbs/day all phases | | 37.76 | 111.79 | 136.10 | 0.00 | 4.62 |
| 4.43 | 0.19 | | | | | |

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Phase 1 - Demolition Assumptions: Phase Turned OFF

Phase 2 - Site Grading Assumptions
Start Month/Year for Phase 2: May '06
Phase 2 Duration: 4.0 months
On-Road Truck Travel (VMT): 0
Off-Road Equipment

| No. | Type | Horsepower | Load Factor | Hours/Day |
|-----|--------------------------|------------|-------------|-----------|
| 1 | Concrete/Industrial saws | 84 | 0.730 | 10.5 |
| 2 | Excavators | 180 | 0.580 | 10.5 |
| 1 | Rough Terrain Forklifts | 94 | 0.475 | 10.5 |
| 1 | Rubber Tired Dozers | 352 | 0.590 | 10.5 |
| 1 | Rubber Tired Loaders | 165 | 0.465 | 10.5 |
| 1 | Scrapers | 313 | 0.660 | 10.5 |

Phase 3 - Building Construction Assumptions
Start Month/Year for Phase 3: Sep '06
Phase 3 Duration: 11.0 months
Start Month/Year for SubPhase Building: Sep '06
SubPhase Building Duration: 10.2 months
Off-Road Equipment

| No. | Type | Horsepower | Load Factor | Hours/Day |
|-----|--------------------------|------------|-------------|-----------|
| 1 | Concrete/Industrial saws | 84 | 0.730 | 10.5 |
| 1 | Cranes | 190 | 0.430 | 10.5 |
| 2 | Off Highway Tractors | 255 | 0.410 | 10.5 |
| 1 | Rough Terrain Forklifts | 94 | 0.475 | 10.5 |
| 2 | Tractor/Loaders/Backhoes | 79 | 0.465 | 10.5 |

Start Month/Year for SubPhase Architectural Coatings: Jul '07
SubPhase Architectural Coatings Duration: 1.0 months
Start Month/Year for SubPhase Asphalt: Jul '07
SubPhase Asphalt Duration: 0.8 months
Acres to be Paved: 1.9

| No. | Type | Horsepower | Load Factor | Hours/Day |
|-----|---------|------------|-------------|-----------|
| 1 | Graders | 174 | 0.575 | 10.5 |
| 1 | Pavers | 132 | 0.590 | 10.5 |
| 1 | Rollers | 114 | 0.430 | 10.5 |

Alternative A Output

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| AREA SOURCE EMISSION ESTIMATES (Summer Pounds per Day, Unmitigated) | | | | | |
|---|------|------|------|------|------|
| Source | ROG | NOX | CO | SO2 | PM10 |
| Natural Gas | 0.09 | 1.15 | 0.49 | 0 | 0.00 |
| Hearth - No summer emissions | | | | | |
| Landscaping | 0.11 | 0.00 | 0.72 | 0.00 | 0.00 |
| Consumer Prdcts | 7.44 | - | - | - | - |
| Architectural Coatings | 0.17 | - | - | - | - |
| TOTALS(lbs/day,unmitigated) | 7.81 | 1.15 | 1.21 | 0.00 | 0.00 |

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UNMITIGATED OPERATIONAL EMISSIONS

| | ROG | NOX | CO | SO2 | PM10 |
|---------------------------|-------|-------|--------|------|-------|
| Apartments low rise | 12.27 | 21.79 | 158.42 | 0.10 | 17.31 |
| TOTAL EMISSIONS (lbs/day) | 12.27 | 21.79 | 158.42 | 0.10 | 17.31 |

Does not include correction for passby trips.
Does not include double counting adjustment for internal trips.

OPERATIONAL (Vehicle) EMISSION ESTIMATES

Analysis Year: 2007 Temperature (F): 60 Season: Summer

EMFAC Version: EMFAC2002 (9/2002)

Summary of Land Uses:

| Unit Type | Acreage | Trip Rate | No. Units | Total Trips |
|---------------------|---------|--------------------------|------------------------------|-------------|
| Apartments low rise | 12.20 | 7.00 trips/dwelling unit | 152.00 | 1,064.00 |
| | | | Sum of Total Trips | 1,064.00 |
| | | | Total Vehicle Miles Traveled | 11,367.88 |

Vehicle Assumptions:

Fleet Mix:

| Vehicle Type | Percent Type | Non-Catalyst | Catalyst | Diesel |
|---------------------------|--------------|--------------|----------|--------|
| Light Auto | 55.20 | 1.80 | 97.80 | 0.40 |
| Light Truck < 3,750 lbs | 15.10 | 3.30 | 94.00 | 2.70 |
| Light Truck 3,751- 5,750 | 16.10 | 1.90 | 96.90 | 1.20 |
| Med Truck 5,751- 8,500 | 7.10 | 1.40 | 95.80 | 2.80 |
| Lite-Heavy 8,501-10,000 | 1.10 | 0.00 | 81.80 | 18.20 |
| Lite-Heavy 10,001-14,000 | 0.40 | 0.00 | 50.00 | 50.00 |
| Med-Heavy 14,001-33,000 | 1.00 | 0.00 | 20.00 | 80.00 |
| Heavy-Heavy 33,001-60,000 | 0.90 | 0.00 | 11.10 | 88.90 |
| Line Haul > 60,000 lbs | 0.00 | 0.00 | 0.00 | 100.00 |

| Alternative A Output | | | | |
|----------------------|------|-------|-------|--------|
| Urban Bus | 0.10 | 0.00 | 0.00 | 100.00 |
| Motorcycle | 1.70 | 82.40 | 17.60 | 0.00 |
| School Bus | 0.10 | 0.00 | 0.00 | 100.00 |
| Motor Home | 1.20 | 8.30 | 83.30 | 8.40 |

Travel Conditions

| | Residential | | | Commercial | | |
|---------------------------|-------------|-----------|------------|------------|----------|----------|
| | Home-Work | Home-Shop | Home-Other | Commute | Non-Work | Customer |
| Urban Trip Length (miles) | 10.8 | 7.3 | 7.5 | 9.5 | 7.4 | 7.4 |
| Rural Trip Length (miles) | 16.8 | 7.1 | 7.9 | 14.7 | 6.6 | 6.6 |
| Trip Speeds (mph) | 35.0 | 35.0 | 35.0 | 35.0 | 35.0 | 35.0 |
| % of Trips - Residential | 32.9 | 18.0 | 49.1 | | | |

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Changes made to the default values for Land Use Trip Percentages

The Trip Rate and/or Acreage values for Apartments low rise have changed from the defaults 6.9/9.5 to 7.00/12.2

Changes made to the default values for Construction

The user has overridden the Default Phase Lengths
Architectural Coatings: # ROG/ft2 (residential) changed from 0.0185 to 0.0013
Architectural Coatings: # ROG/ft2 (non-res) changed from 0.0185 to 0.0013

Changes made to the default values for Area

The wood stove percentage changed from 35 to 0.
The wood fireplace percentage changed from 10 to 0.
The natural gas fireplace percentage changed from 55 to 100.
The landscape year changed from 2005 to 2007.
The residential Arch. Coatings ROG emission factor changed from 0.0185 to 0.0013.
The nonresidential Arch. Coatings ROG emission factor changed from 0.0185 to 0.0013.

Changes made to the default values for Operations

The operational emission year changed from 2005 to 2007.
The operational winter selection item changed from 2 to 1.
The operational summer selection item changed from 4 to 3.
The home based work selection item changed from 8 to 7.
The home based shopping selection item changed from 8 to 7.
The home based other selection item changed from 8 to 7.
The commercial based commute selection item changed from 8 to 7.
The commercial based non-work selection item changed from 8 to 7.
The commercial based customer selection item changed from 8 to 7.

Alternative B Output

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URBEMIS 2002 For Windows 8.7.0

File Name: C:\Program Files\URBEMIS 2002 Version
8.7\Projects2k2\Alternative B.urb
Project Name: Alternative B
Project Location: Mountain Counties and Rural Counties
On-Road Motor Vehicle Emissions Based on EMFAC2002 version 2.2

SUMMARY REPORT (Pounds/Day - Summer)

CONSTRUCTION EMISSION ESTIMATES

| PM10 | PM10 | | | | | PM10 |
|------------------------------|-------|-------|--------|--------|------|-------|
| *** 2006 *** | *** | ROG | NOX | CO | SO2 | TOTAL |
| EXHAUST | DUST | | | | | |
| TOTALS (lbs/day,unmitigated) | | 18.82 | 128.24 | 152.12 | 0.00 | 35.29 |
| 5.28 | 30.01 | | | | | |

| PM10 | PM10 | | | | | PM10 |
|------------------------------|------|-------|--------|--------|------|-------|
| *** 2007 *** | *** | ROG | NOX | CO | SO2 | TOTAL |
| EXHAUST | DUST | | | | | |
| TOTALS (lbs/day,unmitigated) | | 34.96 | 111.74 | 135.15 | 0.00 | 4.58 |
| 4.43 | 0.15 | | | | | |

AREA SOURCE EMISSION ESTIMATES

| | ROG | NOX | CO | SO2 | PM10 |
|------------------------------|------|------|------|------|------|
| TOTALS (lbs/day,unmitigated) | 6.79 | 1.00 | 1.14 | 0.00 | 0.00 |

OPERATIONAL (VEHICLE) EMISSION ESTIMATES

| | ROG | NOX | CO | SO2 | PM10 |
|------------------------------|-------|-------|--------|------|-------|
| TOTALS (lbs/day,unmitigated) | 10.88 | 19.33 | 140.52 | 0.09 | 15.35 |

SUM OF AREA AND OPERATIONAL EMISSION ESTIMATES

| | ROG | NOX | CO | SO2 | PM10 |
|------------------------------|-------|-------|--------|------|-------|
| TOTALS (lbs/day,unmitigated) | 17.67 | 20.33 | 141.67 | 0.09 | 15.35 |

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URBEMIS 2002 For Windows 8.7.0

File Name: C:\Program Files\URBEMIS 2002 Version
8.7\Projects2k2\Alternative B.urb
Project Name: Alternative B
Project Location: Mountain Counties and Rural Counties
On-Road Motor Vehicle Emissions Based on EMFAC2002 version 2.2

Alternative B Output

SUMMARY REPORT (Pounds/Day - Winter)

CONSTRUCTION EMISSION ESTIMATES

| PM10 | PM10 | | | | | PM10 |
|------------------------------|-------|-------|--------|--------|------|-------|
| *** 2006 *** | *** | ROG | NOx | CO | SO2 | TOTAL |
| EXHAUST | DUST | | | | | |
| TOTALS (lbs/day,unmitigated) | | 18.82 | 128.24 | 152.12 | 0.00 | 35.29 |
| 5.28 | 30.01 | | | | | |

| PM10 | PM10 | | | | | PM10 |
|------------------------------|------|-------|--------|--------|------|-------|
| *** 2007 *** | *** | ROG | NOx | CO | SO2 | TOTAL |
| EXHAUST | DUST | | | | | |
| TOTALS (lbs/day,unmitigated) | | 34.96 | 111.74 | 135.15 | 0.00 | 4.58 |
| 4.43 | 0.15 | | | | | |

AREA SOURCE EMISSION ESTIMATES

| | ROG | NOx | CO | SO2 | PM10 |
|------------------------------|------|------|------|------|------|
| TOTALS (lbs/day,unmitigated) | 6.73 | 1.73 | 0.73 | 0.00 | 0.06 |

OPERATIONAL (VEHICLE) EMISSION ESTIMATES

| | ROG | NOx | CO | SO2 | PM10 |
|------------------------------|-------|-------|--------|------|-------|
| TOTALS (lbs/day,unmitigated) | 13.74 | 23.19 | 165.47 | 0.09 | 15.35 |

SUM OF AREA AND OPERATIONAL EMISSION ESTIMATES

| | ROG | NOx | CO | SO2 | PM10 |
|------------------------------|-------|-------|--------|------|-------|
| TOTALS (lbs/day,unmitigated) | 20.47 | 24.91 | 166.21 | 0.09 | 15.41 |

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URBEMIS 2002 For Windows 8.7.0

File Name: C:\Program Files\URBEMIS 2002 Version
8.7\Projects2k2\Alternative B.urb
Project Name: Alternative B
Project Location: Mountain Counties and Rural Counties
On-Road Motor Vehicle Emissions Based on EMFAC2002 version 2.2

DETAIL REPORT (Pounds/Day - Winter)

Construction Start Month and Year: May, 2006
Construction Duration: 15
Total Land Use Area to be Developed: 12.2 acres
Maximum Acreage Disturbed Per Day: 3 acres
Single Family Units: 0 Multi-Family Units: 132
Retail/Office/Institutional/Industrial Square Footage: 0

CONSTRUCTION EMISSION ESTIMATES UNMITIGATED (lbs/day)
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| Alternative B Output | | | | | | PM10 | PM10 |
|----------------------------------|---------|--------|--------|------|------|------|-------|
| PM10 Source | EXHAUST | DUST | ROG | NOX | CO | SO2 | TOTAL |
| *** 2006*** | | | | | | | |
| Phase 1 - Demolition Emissions | | | | | | | |
| Fugitive Dust | - | - | - | - | - | - | 0.00 |
| - | 0.00 | | | | | | |
| Off-Road Diesel | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | - | 0.00 |
| 0.00 | 0.00 | | | | | | |
| On-Road Diesel | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | | | | | | |
| Worker Trips | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | | | | | | |
| Maximum lbs/day | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | | | | | | |
| Phase 2 - Site Grading Emissions | | | | | | | |
| Fugitive Dust | - | - | - | - | - | - | 30.00 |
| - | 30.00 | | | | | | |
| Off-Road Diesel | 18.64 | 127.87 | 148.05 | - | - | - | 5.27 |
| 5.27 | 0.00 | | | | | | |
| On-Road Diesel | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | | | | | | |
| Worker Trips | 0.18 | 0.37 | 4.07 | 0.00 | 0.00 | 0.00 | 0.02 |
| 0.01 | 0.01 | | | | | | |
| Maximum lbs/day | 18.82 | 128.24 | 152.12 | 0.00 | 0.00 | 0.00 | 35.29 |
| 5.28 | 30.01 | | | | | | |
| Phase 3 - Building Construction | | | | | | | |
| Bldg Const Off-Road Diesel | 10.88 | 81.56 | 81.47 | - | - | - | 3.62 |
| 3.62 | 0.00 | | | | | | |
| Bldg Const Worker Trips | 0.31 | 0.19 | 3.95 | 0.00 | 0.00 | 0.00 | 0.07 |
| 0.00 | 0.07 | | | | | | |
| Arch Coatings Off-Gas | 0.00 | - | - | - | - | - | - |
| - | | | | | | | |
| Arch Coatings Worker Trips | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | | | | | | |
| Asphalt Off-Gas | 0.00 | - | - | - | - | - | - |
| - | | | | | | | |
| Asphalt Off-Road Diesel | 0.00 | 0.00 | 0.00 | - | - | - | 0.00 |
| 0.00 | 0.00 | | | | | | |
| Asphalt On-Road Diesel | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | | | | | | |
| Asphalt Worker Trips | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | | | | | | |
| Maximum lbs/day | 11.19 | 81.75 | 85.42 | 0.00 | 0.00 | 0.00 | 3.70 |
| 3.63 | 0.07 | | | | | | |
| Max lbs/day all phases | 18.82 | 128.24 | 152.12 | 0.00 | 0.00 | 0.00 | 35.29 |
| 5.28 | 30.01 | | | | | | |
| *** 2007*** | | | | | | | |
| Phase 1 - Demolition Emissions | | | | | | | |
| Fugitive Dust | - | - | - | - | - | - | 0.00 |
| - | 0.00 | | | | | | |
| Off-Road Diesel | 0.00 | 0.00 | 0.00 | - | - | - | 0.00 |
| 0.00 | 0.00 | | | | | | |
| On-Road Diesel | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | | | | | | |
| Worker Trips | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | | | | | | |

| | | Alternative B Output | | | | |
|----------------------------------|-------|----------------------|--------|------|------|------|
| Maximum lbs/day | | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | | | | | |
| Phase 2 - Site Grading Emissions | | | | | | |
| Fugitive Dust | - | - | - | - | - | 0.00 |
| - 0.00 | | | | | | |
| Off-Road Diesel | 0.00 | 0.00 | 0.00 | - | - | 0.00 |
| 0.00 0.00 | | | | | | |
| On-Road Diesel | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 0.00 0.00 | | | | | | |
| Worker Trips | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 0.00 0.00 | | | | | | |
| Maximum lbs/day | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 0.00 0.00 | | | | | | |
| Phase 3 - Building Construction | | | | | | |
| Bldg Const Off-Road Diesel | 10.88 | 78.23 | 83.69 | - | - | 3.30 |
| 3.30 0.00 | | | | | | |
| Bldg Const Worker Trips | 0.29 | 0.18 | 3.71 | 0.00 | 0.00 | 0.07 |
| 0.00 0.07 | | | | | | |
| Arch Coatings Off-Gas | 17.90 | - | - | - | - | - |
| - - | | | | | | |
| Arch Coatings Worker Trips | 0.27 | 0.14 | 3.13 | 0.00 | 0.00 | 0.07 |
| 0.00 0.07 | | | | | | |
| Asphalt Off-Gas | 0.28 | - | - | - | - | - |
| - - | | | | | | |
| Asphalt Off-Road Diesel | 5.25 | 31.62 | 44.62 | - | - | 1.09 |
| 1.09 0.00 | | | | | | |
| Asphalt On-Road Diesel | 0.08 | 1.59 | 0.31 | 0.00 | 0.00 | 0.04 |
| 0.04 0.00 | | | | | | |
| Asphalt Worker Trips | 0.02 | 0.01 | 0.26 | 0.00 | 0.00 | 0.01 |
| 0.00 0.01 | | | | | | |
| Maximum lbs/day | 34.96 | 111.74 | 135.15 | 0.00 | 0.00 | 4.58 |
| 4.43 0.15 | | | | | | |
| Max lbs/day all phases | 34.96 | 111.74 | 135.15 | 0.00 | 0.00 | 4.58 |
| 4.43 0.15 | | | | | | |

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Phase 1 - Demolition Assumptions: Phase Turned OFF

Phase 2 - Site Grading Assumptions
Start Month/Year for Phase 2: May '06
Phase 2 Duration: 4.0 months
On-Road Truck Travel (VMT): 0
Off-Road Equipment

| No. | Type | Horsepower | Load Factor | Hours/Day |
|-----|--------------------------|------------|-------------|-----------|
| 1 | Concrete/Industrial saws | 84 | 0.730 | 10.5 |
| 2 | Excavators | 180 | 0.580 | 10.5 |
| 1 | Rough Terrain Forklifts | 94 | 0.475 | 10.5 |
| 1 | Rubber Tired Dozers | 352 | 0.590 | 10.5 |
| 1 | Rubber Tired Loaders | 165 | 0.465 | 10.5 |
| 1 | Scrapers | 313 | 0.660 | 10.5 |

Phase 3 - Building Construction Assumptions

Alternative B Output

Start Month/Year for Phase 3: Sep '06

Phase 3 Duration: 11.0 months

Start Month/Year for SubPhase Building: Sep '06

SubPhase Building Duration: 10.2 months

Off-Road Equipment

| No. | Type | Horsepower | Load Factor | Hours/Day |
|-----|--------------------------|------------|-------------|-----------|
| 1 | Concrete/Industrial saws | 84 | 0.730 | 10.5 |
| 1 | Cranes | 190 | 0.430 | 10.5 |
| 2 | Off Highway Tractors | 255 | 0.410 | 10.5 |
| 1 | Rough Terrain Forklifts | 94 | 0.475 | 10.5 |
| 2 | Tractor/Loaders/Backhoes | 79 | 0.465 | 10.5 |

Start Month/Year for SubPhase Architectural Coatings: Jul '07

SubPhase Architectural Coatings Duration: 1.0 months

Start Month/Year for SubPhase Asphalt: Jul '07

SubPhase Asphalt Duration: 0.8 months

Acres to be Paved: 1.9

Off-Road Equipment

| No. | Type | Horsepower | Load Factor | Hours/Day |
|-----|---------|------------|-------------|-----------|
| 1 | Graders | 174 | 0.575 | 10.5 |
| 1 | Pavers | 132 | 0.590 | 10.5 |
| 1 | Rollers | 114 | 0.430 | 10.5 |

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AREA SOURCE EMISSION ESTIMATES (winter Pounds per Day, Unmitigated)

| Source | ROG | NOX | CO | SO2 | PM10 |
|-----------------------------------|------|------|------|------|------|
| Natural Gas | 0.08 | 1.00 | 0.42 | 0 | 0.00 |
| Hearth | 0.04 | 0.73 | 0.31 | 0.00 | 0.06 |
| Landscaping - No winter emissions | | | | | |
| Consumer Prdcts | 6.46 | - | - | - | - |
| Architectural Coatings | 0.15 | - | - | - | - |
| TOTALS(lbs/day,unmitigated) | 6.73 | 1.73 | 0.73 | 0.00 | 0.06 |

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UNMITIGATED OPERATIONAL EMISSIONS

| | ROG | NOX | CO | SO2 | PM10 |
|---------------------------|-------|-------|--------|------|-------|
| Apartments low rise | 13.74 | 23.19 | 165.47 | 0.09 | 15.35 |
| TOTAL EMISSIONS (lbs/day) | 13.74 | 23.19 | 165.47 | 0.09 | 15.35 |

Does not include correction for passby trips.

Does not include double counting adjustment for internal trips.

OPERATIONAL (Vehicle) EMISSION ESTIMATES

Analysis Year: 2007 Temperature (F): 40 Season: winter

EMFAC Version: EMFAC2002 (9/2002)

Alternative B Output

Summary of Land Uses:

| Unit Type | Acreage | Trip Rate | No. Units | Total Trips |
|------------------------------|---------|--------------------------|--------------|----------------|
| Apartments low rise | 12.20 | 7.15 trips/dwelling unit | 132.00 | 943.80 |
| Sum of Total Trips | | | | 943.80 |
| Total Vehicle Miles Traveled | | | | 10,083.65 |

Vehicle Assumptions:

Fleet Mix:

| Vehicle Type | Percent Type | Non-Catalyst | Catalyst | Diesel |
|---------------------------|--------------|--------------|----------|--------|
| Light Auto | 55.20 | 1.80 | 97.80 | 0.40 |
| Light Truck < 3,750 lbs | 15.10 | 3.30 | 94.00 | 2.70 |
| Light Truck 3,751- 5,750 | 16.10 | 1.90 | 96.90 | 1.20 |
| Med Truck 5,751- 8,500 | 7.10 | 1.40 | 95.80 | 2.80 |
| Lite-Heavy 8,501-10,000 | 1.10 | 0.00 | 81.80 | 18.20 |
| Lite-Heavy 10,001-14,000 | 0.40 | 0.00 | 50.00 | 50.00 |
| Med-Heavy 14,001-33,000 | 1.00 | 0.00 | 20.00 | 80.00 |
| Heavy-Heavy 33,001-60,000 | 0.90 | 0.00 | 11.10 | 88.90 |
| Line Haul > 60,000 lbs | 0.00 | 0.00 | 0.00 | 100.00 |
| Urban Bus | 0.10 | 0.00 | 0.00 | 100.00 |
| Motorcycle | 1.70 | 82.40 | 17.60 | 0.00 |
| School Bus | 0.10 | 0.00 | 0.00 | 100.00 |
| Motor Home | 1.20 | 8.30 | 83.30 | 8.40 |

Travel Conditions

| | Residential | | | Commercial | | |
|---------------------------|---------------|---------------|----------------|------------|----------|----------|
| | Home- Work | Home- Shop | Home- Other | Commute | Non-Work | Customer |
| Urban Trip Length (miles) | 10.8 | 7.3 | 7.5 | 9.5 | 7.4 | 7.4 |
| Rural Trip Length (miles) | 16.8 | 7.1 | 7.9 | 14.7 | 6.6 | 6.6 |
| Trip Speeds (mph) | 35.0 | 35.0 | 35.0 | 35.0 | 35.0 | 35.0 |
| % of Trips - Residential | 32.9 | 18.0 | 49.1 | | | |

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Changes made to the default values for Land Use Trip Percentages

The Trip Rate and/or Acreage values for Apartments low rise have changed from the defaults 6.9/8.25 to 7.15/12.2

Changes made to the default values for Construction

The user has overridden the Default Phase Lengths

Architectural Coatings: # ROG/ft2 (residential) changed from 0.0185 to 0.0013

Architectural Coatings: # ROG/ft2 (non-res) changed from 0.0185 to 0.0013

Changes made to the default values for Area

The wood stove percentage changed from 35 to 0.

The wood fireplace percentage changed from 10 to 0.

The natural gas fireplace percentage changed from 55 to 100.

The landscape year changed from 2005 to 2007.

The residential Arch. Coatings ROG emission factor changed from 0.0185 to 0.0013.

Alternative B Output

The nonresidential Arch. Coatings ROG emission factor changed from 0.0185 to 0.0013.

Changes made to the default values for Operations

The operational emission year changed from 2005 to 2007.

The operational winter selection item changed from 2 to 1.

The operational summer selection item changed from 4 to 3.

The home based work selection item changed from 8 to 7.

The home based shopping selection item changed from 8 to 7.

The home based other selection item changed from 8 to 7.

The commercial based commute selection item changed from 8 to 7.

The commercial based non-work selection item changed from 8 to 7.

The commercial based customer selection item changed from 8 to 7.

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URBEMIS 2002 For Windows 8.7.0

File Name: C:\Program Files\URBEMIS 2002 Version
8.7\Projects2k2\Alternative B.urb
Project Name: Alternative B
Project Location: Mountain Counties and Rural Counties
On-Road Motor Vehicle Emissions Based on EMFAC2002 version 2.2

DETAIL REPORT (Pounds/Day - Summer)

Construction Start Month and Year: May, 2006

Construction Duration: 15

Total Land Use Area to be Developed: 12.2 acres

Maximum Acreage Disturbed Per Day: 3 acres

Single Family Units: 0 Multi-Family Units: 132

Retail/Office/Institutional/Industrial Square Footage: 0

CONSTRUCTION EMISSION ESTIMATES UNMITIGATED (lbs/day)

| PM10 | | | | | | PM10 | PM10 |
|----------------------------------|-------|-------|--------|--------|------|-------|------|
| Source | | ROG | NOX | CO | SO2 | TOTAL | |
| EXHAUST | DUST | | | | | | |
| *** 2006*** | | | | | | | |
| Phase 1 - Demolition Emissions | | | | | | | |
| Fugitive Dust | | - | - | - | - | 0.00 | |
| - | 0.00 | | | | | | |
| Off-Road Diesel | | 0.00 | 0.00 | 0.00 | - | 0.00 | |
| 0.00 | 0.00 | | | | | | |
| On-Road Diesel | | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 0.00 | 0.00 | | | | | | |
| Worker Trips | | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 0.00 | 0.00 | | | | | | |
| Maximum lbs/day | | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 0.00 | 0.00 | | | | | | |
| Phase 2 - Site Grading Emissions | | | | | | | |
| Fugitive Dust | | - | - | - | - | 30.00 | |
| - | 30.00 | | | | | | |
| Off-Road Diesel | | 18.64 | 127.87 | 148.05 | - | 5.27 | |
| 5.27 | 0.00 | | | | | | |
| On-Road Diesel | | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 0.00 | 0.00 | | | | | | |

| | | Alternative B Output | | | | |
|---------------------------------|-------|----------------------|--------|--------|------|-------|
| Worker Trips | | 0.18 | 0.37 | 4.07 | 0.00 | 0.02 |
| 0.01 | 0.01 | | | | | |
| Maximum lbs/day | | 18.82 | 128.24 | 152.12 | 0.00 | 35.29 |
| 5.28 | 30.01 | | | | | |
| Phase 3 - Building Construction | | | | | | |
| Bldg Const Off-Road Diesel | | 10.88 | 81.56 | 81.47 | - | 3.62 |
| 3.62 | 0.00 | | | | | |
| Bldg Const Worker Trips | | 0.31 | 0.19 | 3.95 | 0.00 | 0.07 |
| 0.00 | 0.07 | | | | | |
| Arch Coatings Off-Gas | | 0.00 | - | - | - | - |
| - | - | | | | | |
| Arch Coatings Worker Trips | | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | | | | | |
| Asphalt Off-Gas | | 0.00 | - | - | - | - |
| - | - | | | | | |
| Asphalt Off-Road Diesel | | 0.00 | 0.00 | 0.00 | - | 0.00 |
| 0.00 | 0.00 | | | | | |
| Asphalt On-Road Diesel | | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | | | | | |
| Asphalt Worker Trips | | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | | | | | |
| Maximum lbs/day | | 11.19 | 81.75 | 85.42 | 0.00 | 3.70 |
| 3.63 | 0.07 | | | | | |
| Max lbs/day all phases | | 18.82 | 128.24 | 152.12 | 0.00 | 35.29 |
| 5.28 | 30.01 | | | | | |

*** 2007***

| | | | | | | |
|--------------------------------|------|------|------|------|------|------|
| Phase 1 - Demolition Emissions | | | | | | |
| Fugitive Dust | | - | - | - | - | 0.00 |
| - | 0.00 | | | | | |
| Off-Road Diesel | | 0.00 | 0.00 | 0.00 | - | 0.00 |
| 0.00 | 0.00 | | | | | |
| On-Road Diesel | | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | | | | | |
| Worker Trips | | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | | | | | |
| Maximum lbs/day | | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | | | | | |

| | | | | | | |
|----------------------------------|------|------|------|------|------|------|
| Phase 2 - Site Grading Emissions | | | | | | |
| Fugitive Dust | | - | - | - | - | 0.00 |
| - | 0.00 | | | | | |
| Off-Road Diesel | | 0.00 | 0.00 | 0.00 | - | 0.00 |
| 0.00 | 0.00 | | | | | |
| On-Road Diesel | | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | | | | | |
| Worker Trips | | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | | | | | |
| Maximum lbs/day | | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | | | | | |

| | | | | | | |
|---------------------------------|------|-------|-------|-------|------|------|
| Phase 3 - Building Construction | | | | | | |
| Bldg Const Off-Road Diesel | | 10.88 | 78.23 | 83.69 | - | 3.30 |
| 3.30 | 0.00 | | | | | |
| Bldg Const Worker Trips | | 0.29 | 0.18 | 3.71 | 0.00 | 0.07 |
| 0.00 | 0.07 | | | | | |
| Arch Coatings Off-Gas | | 17.90 | - | - | - | - |
| - | - | | | | | |
| Arch Coatings Worker Trips | | 0.27 | 0.14 | 3.13 | 0.00 | 0.07 |
| 0.00 | 0.07 | | | | | |

| | | | | | |
|-------------------------|----------------------|--------|--------|------|------|
| Asphalt Off-Gas | Alternative B Output | | | | |
| - | 0.28 | - | - | - | - |
| Asphalt Off-Road Diesel | 5.25 | 31.62 | 44.62 | - | 1.09 |
| 1.09 0.00 | | | | | |
| Asphalt On-Road Diesel | 0.08 | 1.59 | 0.31 | 0.00 | 0.04 |
| 0.04 0.00 | | | | | |
| Asphalt Worker Trips | 0.02 | 0.01 | 0.26 | 0.00 | 0.01 |
| 0.00 0.01 | | | | | |
| Maximum lbs/day | 34.96 | 111.74 | 135.15 | 0.00 | 4.58 |
| 4.43 0.15 | | | | | |
| Max lbs/day all phases | 34.96 | 111.74 | 135.15 | 0.00 | 4.58 |
| 4.43 0.15 | | | | | |

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Phase 1 - Demolition Assumptions: Phase Turned OFF

Phase 2 - Site Grading Assumptions
Start Month/Year for Phase 2: May '06
Phase 2 Duration: 4.0 months
On-Road Truck Travel (VMT): 0
Off-Road Equipment

| No. | Type | Horsepower | Load Factor | Hours/Day |
|-----|--------------------------|------------|-------------|-----------|
| 1 | Concrete/Industrial saws | 84 | 0.730 | 10.5 |
| 2 | Excavators | 180 | 0.580 | 10.5 |
| 1 | Rough Terrain Forklifts | 94 | 0.475 | 10.5 |
| 1 | Rubber Tired Dozers | 352 | 0.590 | 10.5 |
| 1 | Rubber Tired Loaders | 165 | 0.465 | 10.5 |
| 1 | Scrapers | 313 | 0.660 | 10.5 |

Phase 3 - Building Construction Assumptions
Start Month/Year for Phase 3: Sep '06
Phase 3 Duration: 11.0 months
Start Month/Year for SubPhase Building: Sep '06
SubPhase Building Duration: 10.2 months
Off-Road Equipment

| No. | Type | Horsepower | Load Factor | Hours/Day |
|-----|--------------------------|------------|-------------|-----------|
| 1 | Concrete/Industrial saws | 84 | 0.730 | 10.5 |
| 1 | Cranes | 190 | 0.430 | 10.5 |
| 2 | Off Highway Tractors | 255 | 0.410 | 10.5 |
| 1 | Rough Terrain Forklifts | 94 | 0.475 | 10.5 |
| 2 | Tractor/Loaders/Backhoes | 79 | 0.465 | 10.5 |

Start Month/Year for SubPhase Architectural Coatings: Jul '07
SubPhase Architectural Coatings Duration: 1.0 months
Start Month/Year for SubPhase Asphalt: Jul '07
SubPhase Asphalt Duration: 0.8 months
Acres to be Paved: 1.9

| No. | Type | Horsepower | Load Factor | Hours/Day |
|-----|---------|------------|-------------|-----------|
| 1 | Graders | 174 | 0.575 | 10.5 |
| 1 | Pavers | 132 | 0.590 | 10.5 |
| 1 | Rollers | 114 | 0.430 | 10.5 |

Alternative B Output

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| AREA SOURCE EMISSION ESTIMATES (Summer Pounds per Day, Unmitigated) | | | | | |
|---|------|------|------|------|------|
| Source | ROG | NOx | CO | SO2 | PM10 |
| Natural Gas | 0.08 | 1.00 | 0.42 | 0 | 0.00 |
| Hearth - No summer emissions | | | | | |
| Landscaping | 0.11 | 0.00 | 0.72 | 0.00 | 0.00 |
| Consumer Prdcts | 6.46 | - | - | - | - |
| Architectural Coatings | 0.15 | - | - | - | - |
| TOTALS(lbs/day,unmitigated) | 6.79 | 1.00 | 1.14 | 0.00 | 0.00 |

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UNMITIGATED OPERATIONAL EMISSIONS

| | ROG | NOx | CO | SO2 | PM10 |
|---------------------------|-------|-------|--------|------|-------|
| Apartments low rise | 10.88 | 19.33 | 140.52 | 0.09 | 15.35 |
| TOTAL EMISSIONS (lbs/day) | 10.88 | 19.33 | 140.52 | 0.09 | 15.35 |

Does not include correction for passby trips.
Does not include double counting adjustment for internal trips.

OPERATIONAL (Vehicle) EMISSION ESTIMATES

Analysis Year: 2007 Temperature (F): 60 Season: Summer

EMFAC Version: EMFAC2002 (9/2002)

Summary of Land Uses:

| Unit Type | Acreage | Trip Rate | No. Units | Total Trips |
|------------------------------|---------|--------------------------|-----------|-------------|
| Apartments low rise | 12.20 | 7.15 trips/dwelling unit | 132.00 | 943.80 |
| Sum of Total Trips | | | | 943.80 |
| Total Vehicle Miles Traveled | | | | 10,083.65 |

Vehicle Assumptions:

Fleet Mix:

| Vehicle Type | Percent Type | Non-Catalyst | Catalyst | Diesel |
|---------------------------|--------------|--------------|----------|--------|
| Light Auto | 55.20 | 1.80 | 97.80 | 0.40 |
| Light Truck < 3,750 lbs | 15.10 | 3.30 | 94.00 | 2.70 |
| Light Truck 3,751- 5,750 | 16.10 | 1.90 | 96.90 | 1.20 |
| Med Truck 5,751- 8,500 | 7.10 | 1.40 | 95.80 | 2.80 |
| Lite-Heavy 8,501-10,000 | 1.10 | 0.00 | 81.80 | 18.20 |
| Lite-Heavy 10,001-14,000 | 0.40 | 0.00 | 50.00 | 50.00 |
| Med-Heavy 14,001-33,000 | 1.00 | 0.00 | 20.00 | 80.00 |
| Heavy-Heavy 33,001-60,000 | 0.90 | 0.00 | 11.10 | 88.90 |
| Line Haul > 60,000 lbs | 0.00 | 0.00 | 0.00 | 100.00 |

| Alternative B Output | | | | |
|----------------------|------|-------|-------|--------|
| Urban Bus | 0.10 | 0.00 | 0.00 | 100.00 |
| Motorcycle | 1.70 | 82.40 | 17.60 | 0.00 |
| School Bus | 0.10 | 0.00 | 0.00 | 100.00 |
| Motor Home | 1.20 | 8.30 | 83.30 | 8.40 |

Travel Conditions

| | Residential | | | Commercial | | |
|---------------------------|-------------|-----------|------------|------------|----------|----------|
| | Home-Work | Home-Shop | Home-Other | Commute | Non-Work | Customer |
| Urban Trip Length (miles) | 10.8 | 7.3 | 7.5 | 9.5 | 7.4 | 7.4 |
| Rural Trip Length (miles) | 16.8 | 7.1 | 7.9 | 14.7 | 6.6 | 6.6 |
| Trip Speeds (mph) | 35.0 | 35.0 | 35.0 | 35.0 | 35.0 | 35.0 |
| % of Trips - Residential | 32.9 | 18.0 | 49.1 | | | |

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Changes made to the default values for Land Use Trip Percentages

The Trip Rate and/or Acreage values for Apartments lowrise have changed from the defaults 6.9/8.25 to 7.15/12.2

Changes made to the default values for Construction

The user has overridden the Default Phase Lengths
Architectural Coatings: # ROG/ft2 (residential) changed from 0.0185 to 0.0013
Architectural Coatings: # ROG/ft2 (non-res) changed from 0.0185 to 0.0013

Changes made to the default values for Area

The wood stove percentage changed from 35 to 0.
The wood fireplace percentage changed from 10 to 0.
The natural gas fireplace percentage changed from 55 to 100.
The landscape year changed from 2005 to 2007.
The residential Arch. Coatings ROG emission factor changed from 0.0185 to 0.0013.
The nonresidential Arch. Coatings ROG emission factor changed from 0.0185 to 0.0013.

Changes made to the default values for Operations

The operational emission year changed from 2005 to 2007.
The operational winter selection item changed from 2 to 1.
The operational summer selection item changed from 4 to 3.
The home based work selection item changed from 8 to 7.
The home based shopping selection item changed from 8 to 7.
The home based other selection item changed from 8 to 7.
The commercial based commute selection item changed from 8 to 7.
The commercial based non-work selection item changed from 8 to 7.
The commercial based customer selection item changed from 8 to 7.

Alternative C Output

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URBEMIS 2002 For Windows 8.7.0

File Name: C:\Program Files\URBEMIS 2002 Version
8.7\Projects2k2\Alternative C.urb
Project Name: Alternative C
Project Location: Mountain Counties and Rural Counties
On-Road Motor Vehicle Emissions Based on EMFAC2002 version 2.2

SUMMARY REPORT (Pounds/Day - Summer)

CONSTRUCTION EMISSION ESTIMATES

| PM10 | PM10 | | | | | PM10 |
|------------------------------|-------|-------|--------|--------|------|-------|
| *** 2006 *** | *** | ROG | NOx | CO | SO2 | TOTAL |
| EXHAUST | DUST | | | | | |
| TOTALS (lbs/day,unmitigated) | | 18.82 | 128.24 | 152.12 | 0.00 | 35.29 |
| 5.28 | 30.01 | | | | | |

| PM10 | PM10 | | | | | PM10 |
|------------------------------|------|-------|--------|--------|------|-------|
| *** 2007 *** | *** | ROG | NOx | CO | SO2 | TOTAL |
| EXHAUST | DUST | | | | | |
| TOTALS (lbs/day,unmitigated) | | 38.88 | 111.80 | 136.48 | 0.00 | 4.62 |
| 4.43 | 0.19 | | | | | |

AREA SOURCE EMISSION ESTIMATES

| | ROG | NOx | CO | SO2 | PM10 |
|------------------------------|------|------|------|------|------|
| TOTALS (lbs/day,unmitigated) | 8.21 | 1.21 | 1.23 | 0.00 | 0.00 |

OPERATIONAL (VEHICLE) EMISSION ESTIMATES

| | ROG | NOx | CO | SO2 | PM10 |
|------------------------------|-------|-------|--------|------|-------|
| TOTALS (lbs/day,unmitigated) | 12.82 | 22.78 | 165.57 | 0.10 | 18.09 |

SUM OF AREA AND OPERATIONAL EMISSION ESTIMATES

| | ROG | NOx | CO | SO2 | PM10 |
|------------------------------|-------|-------|--------|------|-------|
| TOTALS (lbs/day,unmitigated) | 21.04 | 23.99 | 166.80 | 0.10 | 18.09 |

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URBEMIS 2002 For Windows 8.7.0

File Name: C:\Program Files\URBEMIS 2002 Version
8.7\Projects2k2\Alternative C.urb
Project Name: Alternative C
Project Location: Mountain Counties and Rural Counties
On-Road Motor Vehicle Emissions Based on EMFAC2002 version 2.2

Alternative C Output

DETAIL REPORT (Pounds/Day - Winter)

Construction Start Month and Year: May, 2006
 Construction Duration: 15
 Total Land Use Area to be Developed: 12.2 acres
 Maximum Acreage Disturbed Per Day: 3 acres
 Single Family Units: 0 Multi-Family Units: 160
 Retail/office/Institutional/Industrial Square Footage: 0

CONSTRUCTION EMISSION ESTIMATES UNMITIGATED (lbs/day)

| PM10 | | | | | | | PM10 | PM10 |
|----------------------------------|-------|-------|--------|--------|------|-------|------|------|
| Source | | ROG | NOX | CO | SO2 | TOTAL | | |
| EXHAUST | DUST | | | | | | | |
| *** 2006*** | | | | | | | | |
| Phase 1 - Demolition Emissions | | | | | | | | |
| Fugitive Dust | | - | - | - | - | 0.00 | | |
| - | 0.00 | | | | | | | |
| Off-Road Diesel | | 0.00 | 0.00 | 0.00 | - | 0.00 | | |
| 0.00 | 0.00 | | | | | | | |
| On-Road Diesel | | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | |
| 0.00 | 0.00 | | | | | | | |
| Worker Trips | | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | |
| 0.00 | 0.00 | | | | | | | |
| Maximum lbs/day | | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | |
| 0.00 | 0.00 | | | | | | | |
| Phase 2 - Site Grading Emissions | | | | | | | | |
| Fugitive Dust | | - | - | - | - | 30.00 | | |
| - | 30.00 | | | | | | | |
| Off-Road Diesel | | 18.64 | 127.87 | 148.05 | - | 5.27 | | |
| 5.27 | 0.00 | | | | | | | |
| On-Road Diesel | | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | |
| 0.00 | 0.00 | | | | | | | |
| Worker Trips | | 0.18 | 0.37 | 4.07 | 0.00 | 0.02 | | |
| 0.01 | 0.01 | | | | | | | |
| Maximum lbs/day | | 18.82 | 128.24 | 152.12 | 0.00 | 35.29 | | |
| 5.28 | 30.01 | | | | | | | |
| Phase 3 - Building Construction | | | | | | | | |
| Bldg Const Off-Road Diesel | | 10.88 | 81.56 | 81.47 | - | 3.62 | | |
| 3.62 | 0.00 | | | | | | | |
| Bldg Const Worker Trips | | 0.38 | 0.23 | 4.79 | 0.00 | 0.09 | | |
| 0.00 | 0.09 | | | | | | | |
| Arch Coatings Off-Gas | | 0.00 | - | - | - | - | | |
| - | - | | | | | | | |
| Arch Coatings Worker Trips | | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | |
| 0.00 | 0.00 | | | | | | | |
| Asphalt Off-Gas | | 0.00 | - | - | - | - | | |
| - | - | | | | | | | |
| Asphalt Off-Road Diesel | | 0.00 | 0.00 | 0.00 | - | 0.00 | | |
| 0.00 | 0.00 | | | | | | | |
| Asphalt On-Road Diesel | | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | |
| 0.00 | 0.00 | | | | | | | |
| Asphalt Worker Trips | | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | |
| 0.00 | 0.00 | | | | | | | |
| Maximum lbs/day | | 11.25 | 81.79 | 86.26 | 0.00 | 3.72 | | |
| 3.63 | 0.09 | | | | | | | |
| Max lbs/day all phases | | 18.82 | 128.24 | 152.12 | 0.00 | 35.29 | | |
| 5.28 | 30.01 | | | | | | | |

Alternative C Output

*** 2007***

Phase 1 - Demolition Emissions

| | | | | | |
|-----------------|------|------|------|------|------|
| Fugitive Dust | - | - | - | - | 0.00 |
| - 0.00 | | | | | |
| Off-Road Diesel | 0.00 | 0.00 | 0.00 | - | 0.00 |
| 0.00 0.00 | | | | | |
| On-Road Diesel | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 0.00 0.00 | | | | | |
| Worker Trips | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 0.00 0.00 | | | | | |
| Maximum lbs/day | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 0.00 0.00 | | | | | |

Phase 2 - Site Grading Emissions

| | | | | | |
|-----------------|------|------|------|------|------|
| Fugitive Dust | - | - | - | - | 0.00 |
| - 0.00 | | | | | |
| Off-Road Diesel | 0.00 | 0.00 | 0.00 | - | 0.00 |
| 0.00 0.00 | | | | | |
| On-Road Diesel | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 0.00 0.00 | | | | | |
| Worker Trips | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 0.00 0.00 | | | | | |
| Maximum lbs/day | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 0.00 0.00 | | | | | |

Phase 3 - Building Construction

| | | | | | |
|----------------------------|-------|--------|--------|------|------|
| Bldg Const Off-Road Diesel | 10.88 | 78.23 | 83.69 | - | 3.30 |
| 3.30 0.00 | | | | | |
| Bldg Const Worker Trips | 0.35 | 0.21 | 4.50 | 0.00 | 0.09 |
| 0.00 0.09 | | | | | |
| Arch Coatings Off-Gas | 21.70 | - | - | - | - |
| - - | | | | | |
| Arch Coatings Worker Trips | 0.33 | 0.17 | 3.80 | 0.00 | 0.09 |
| 0.00 0.09 | | | | | |
| Asphalt Off-Gas | 0.28 | - | - | - | - |
| - - | | | | | |
| Asphalt Off-Road Diesel | 5.25 | 31.62 | 44.62 | - | 1.09 |
| 1.09 0.00 | | | | | |
| Asphalt On-Road Diesel | 0.08 | 1.59 | 0.31 | 0.00 | 0.04 |
| 0.04 0.00 | | | | | |
| Asphalt Worker Trips | 0.02 | 0.01 | 0.26 | 0.00 | 0.01 |
| 0.00 0.01 | | | | | |
| Maximum lbs/day | 38.88 | 111.80 | 136.48 | 0.00 | 4.62 |
| 4.43 0.19 | | | | | |
| Max lbs/day all phases | 38.88 | 111.80 | 136.48 | 0.00 | 4.62 |
| 4.43 0.19 | | | | | |

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Phase 1 - Demolition Assumptions: Phase Turned OFF

Phase 2 - Site Grading Assumptions

Start Month/Year for Phase 2: May '06

Alternative C Output

Phase 2 Duration: 4.0 months
On-Road Truck Travel (VMT): 0
Off-Road Equipment

| No. | Type | Horsepower | Load Factor | Hours/Day |
|-----|--------------------------|------------|-------------|-----------|
| 1 | Concrete/Industrial saws | 84 | 0.730 | 10.5 |
| 2 | Excavators | 180 | 0.580 | 10.5 |
| 1 | Rough Terrain Forklifts | 94 | 0.475 | 10.5 |
| 1 | Rubber Tired Dozers | 352 | 0.590 | 10.5 |
| 1 | Rubber Tired Loaders | 165 | 0.465 | 10.5 |
| 1 | Scrapers | 313 | 0.660 | 10.5 |

Phase 3 - Building Construction Assumptions

Start Month/Year for Phase 3: Sep '06

Phase 3 Duration: 11.0 months

Start Month/Year for SubPhase Building: Sep '06

SubPhase Building Duration: 10.2 months

Off-Road Equipment

| No. | Type | Horsepower | Load Factor | Hours/Day |
|-----|--------------------------|------------|-------------|-----------|
| 1 | Concrete/Industrial saws | 84 | 0.730 | 10.5 |
| 1 | Cranes | 190 | 0.430 | 10.5 |
| 2 | Off Highway Tractors | 255 | 0.410 | 10.5 |
| 1 | Rough Terrain Forklifts | 94 | 0.475 | 10.5 |
| 2 | Tractor/Loaders/Backhoes | 79 | 0.465 | 10.5 |

Start Month/Year for SubPhase Architectural Coatings: Jul '07

SubPhase Architectural Coatings Duration: 1.0 months

Start Month/Year for SubPhase Asphalt: Jul '07

SubPhase Asphalt Duration: 0.8 months

Acres to be Paved: 1.9

Off-Road Equipment

| No. | Type | Horsepower | Load Factor | Hours/Day |
|-----|---------|------------|-------------|-----------|
| 1 | Graders | 174 | 0.575 | 10.5 |
| 1 | Pavers | 132 | 0.590 | 10.5 |
| 1 | Rollers | 114 | 0.430 | 10.5 |

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AREA SOURCE EMISSION ESTIMATES (winter Pounds per Day, Unmitigated)

| Source | ROG | NOX | CO | SO2 | PM10 |
|-----------------------------------|------|------|------|------|------|
| Natural Gas | 0.09 | 1.21 | 0.51 | 0 | 0.00 |
| Hearth | 0.05 | 0.88 | 0.38 | 0.01 | 0.07 |
| Landscaping - No winter emissions | | | | | |
| Consumer Prdcts | 7.83 | - | - | - | - |
| Architectural Coatings | 0.18 | - | - | - | - |
| TOTALS(lbs/day,unmitigated) | 8.15 | 2.09 | 0.89 | 0.01 | 0.07 |

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UNMITIGATED OPERATIONAL EMISSIONS

| | ROG | NOX | CO | SO2 | PM10 |
|---------------------|-------|-------|--------|------|-------|
| Apartments low rise | 16.19 | 27.32 | 194.96 | 0.10 | 18.09 |

Alternative C Output

TOTAL EMISSIONS (lbs/day) 16.19 27.32 194.96 0.10 18.09

Does not include correction for passby trips.

Does not include double counting adjustment for internal trips.

OPERATIONAL (Vehicle) EMISSION ESTIMATES

Analysis Year: 2007 Temperature (F): 40 Season: Winter

EMFAC Version: EMFAC2002 (9/2002)

Summary of Land Uses:

| Unit Type | Acreage | Trip Rate | No. Units | Total Trips |
|------------------------------|---------|--------------------------|-----------|-------------|
| Apartments low rise | 12.20 | 6.95 trips/dwelling unit | 160.00 | 1,112.00 |
| Sum of Total Trips | | | | 1,112.00 |
| Total Vehicle Miles Traveled | | | | 11,880.72 |

Vehicle Assumptions:

Fleet Mix:

| Vehicle Type | Percent Type | Non-Catalyst | Catalyst | Diesel |
|---------------------------|--------------|--------------|----------|--------|
| Light Auto | 55.20 | 1.80 | 97.80 | 0.40 |
| Light Truck < 3,750 lbs | 15.10 | 3.30 | 94.00 | 2.70 |
| Light Truck 3,751- 5,750 | 16.10 | 1.90 | 96.90 | 1.20 |
| Med Truck 5,751- 8,500 | 7.10 | 1.40 | 95.80 | 2.80 |
| Lite-Heavy 8,501-10,000 | 1.10 | 0.00 | 81.80 | 18.20 |
| Lite-Heavy 10,001-14,000 | 0.40 | 0.00 | 50.00 | 50.00 |
| Med-Heavy 14,001-33,000 | 1.00 | 0.00 | 20.00 | 80.00 |
| Heavy-Heavy 33,001-60,000 | 0.90 | 0.00 | 11.10 | 88.90 |
| Line Haul > 60,000 lbs | 0.00 | 0.00 | 0.00 | 100.00 |
| Urban Bus | 0.10 | 0.00 | 0.00 | 100.00 |
| Motorcycle | 1.70 | 82.40 | 17.60 | 0.00 |
| School Bus | 0.10 | 0.00 | 0.00 | 100.00 |
| Motor Home | 1.20 | 8.30 | 83.30 | 8.40 |

Travel Conditions

| | Residential | | | Commercial | | |
|---------------------------|-------------|-----------|------------|------------|----------|----------|
| | Home-Work | Home-Shop | Home-Other | Commute | Non-Work | Customer |
| Urban Trip Length (miles) | 10.8 | 7.3 | 7.5 | 9.5 | 7.4 | 7.4 |
| Rural Trip Length (miles) | 16.8 | 7.1 | 7.9 | 14.7 | 6.6 | 6.6 |
| Trip Speeds (mph) | 35.0 | 35.0 | 35.0 | 35.0 | 35.0 | 35.0 |
| % of Trips - Residential | 32.9 | 18.0 | 49.1 | | | |

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Changes made to the default values for Land Use Trip Percentages

The Trip Rate and/or Acreage values for Apartments low rise have changed from the defaults 6.9/10. to 6.95/12.2

Changes made to the default values for Construction

Alternative C Output

The user has overridden the Default Phase Lengths

Architectural Coatings: # ROG/ft2 (residential) changed from 0.0185 to 0.0013

Architectural Coatings: # ROG/ft2 (non-res) changed from 0.0185 to 0.0013

Changes made to the default values for Area

The wood stove percentage changed from 35 to 0.

The wood fireplace percentage changed from 10 to 0.

The natural gas fireplace percentage changed from 55 to 100.

The landscape year changed from 2005 to 2007.

The residential Arch. Coatings ROG emission factor changed from 0.0185 to 0.0013.

The nonresidential Arch. Coatings ROG emission factor changed from 0.0185 to 0.0013.

Changes made to the default values for Operations

The operational emission year changed from 2005 to 2007.

The operational winter selection item changed from 2 to 1.

The operational summer selection item changed from 4 to 3.

The home based work selection item changed from 8 to 7.

The home based shopping selection item changed from 8 to 7.

The home based other selection item changed from 8 to 7.

The commercial based commute selection item changed from 8 to 7.

The commercial based non-work selection item changed from 8 to 7.

The commercial based customer selection item changed from 8 to 7.

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URBEMIS 2002 For windows 8.7.0

File Name: C:\Program Files\URBEMIS 2002 Version

8.7\Projects2k2\Alternative C.urb

Project Name: Alternative C

Project Location: Mountain Counties and Rural Counties

On-Road Motor Vehicle Emissions Based on EMFAC2002 version 2.2

DETAIL REPORT (Pounds/Day - Summer)

Construction Start Month and Year: May, 2006

Construction Duration: 15

Total Land Use Area to be Developed: 12.2 acres

Maximum Acreage Disturbed Per Day: 3 acres

Single Family Units: 0 Multi-Family Units: 160

Retail/Office/Institutional/Industrial Square Footage: 0

CONSTRUCTION EMISSION ESTIMATES UNMITIGATED (lbs/day)

| PM10 | | | | | | PM10 | PM10 |
|--------------------------------|------|------|------|------|------|-------|------|
| Source | DUST | ROG | NOX | CO | SO2 | TOTAL | |
| EXHAUST | | | | | | | |
| *** 2006*** | | | | | | | |
| Phase 1 - Demolition Emissions | | | | | | | |
| Fugitive Dust | | - | - | - | - | 0.00 | |
| - | 0.00 | | | | | | |
| Off-Road Diesel | | 0.00 | 0.00 | 0.00 | - | 0.00 | |
| 0.00 | 0.00 | | | | | | |
| On-Road Diesel | | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 0.00 | 0.00 | | | | | | |

| | Alternative C output | | | | |
|-----------------|----------------------|------|------|------|------|
| Worker Trips | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 0.00 0.00 | | | | | |
| Maximum lbs/day | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 0.00 0.00 | | | | | |

Phase 2 - Site Grading Emissions

| | | | | | |
|-----------------|-------|--------|--------|------|-------|
| Fugitive Dust | - | - | - | - | 30.00 |
| - 30.00 | | | | | |
| Off-Road Diesel | 18.64 | 127.87 | 148.05 | - | 5.27 |
| 5.27 0.00 | | | | | |
| On-Road Diesel | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 0.00 0.00 | | | | | |
| Worker Trips | 0.18 | 0.37 | 4.07 | 0.00 | 0.02 |
| 0.01 0.01 | | | | | |
| Maximum lbs/day | 18.82 | 128.24 | 152.12 | 0.00 | 35.29 |
| 5.28 30.01 | | | | | |

Phase 3 - Building Construction

| | | | | | |
|----------------------------|-------|-------|-------|------|------|
| Bldg Const Off-Road Diesel | 10.88 | 81.56 | 81.47 | - | 3.62 |
| 3.62 0.00 | | | | | |
| Bldg Const Worker Trips | 0.38 | 0.23 | 4.79 | 0.00 | 0.09 |
| 0.00 0.09 | | | | | |
| Arch Coatings Off-Gas | 0.00 | - | - | - | - |
| - | | | | | |
| Arch Coatings Worker Trips | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 0.00 0.00 | | | | | |
| Asphalt Off-Gas | 0.00 | - | - | - | - |
| - | | | | | |
| Asphalt Off-Road Diesel | 0.00 | 0.00 | 0.00 | - | 0.00 |
| 0.00 0.00 | | | | | |
| Asphalt On-Road Diesel | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 0.00 0.00 | | | | | |
| Asphalt Worker Trips | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 0.00 0.00 | | | | | |
| Maximum lbs/day | 11.25 | 81.79 | 86.26 | 0.00 | 3.72 |
| 3.63 0.09 | | | | | |

| | | | | | |
|------------------------|-------|--------|--------|------|-------|
| Max lbs/day all phases | 18.82 | 128.24 | 152.12 | 0.00 | 35.29 |
| 5.28 30.01 | | | | | |

*** 2007***

Phase 1 - Demolition Emissions

| | | | | | |
|-----------------|------|------|------|------|------|
| Fugitive Dust | - | - | - | - | 0.00 |
| - 0.00 | | | | | |
| Off-Road Diesel | 0.00 | 0.00 | 0.00 | - | 0.00 |
| 0.00 0.00 | | | | | |
| On-Road Diesel | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 0.00 0.00 | | | | | |
| Worker Trips | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 0.00 0.00 | | | | | |
| Maximum lbs/day | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 0.00 0.00 | | | | | |

Phase 2 - Site Grading Emissions

| | | | | | |
|-----------------|------|------|------|------|------|
| Fugitive Dust | - | - | - | - | 0.00 |
| - 0.00 | | | | | |
| Off-Road Diesel | 0.00 | 0.00 | 0.00 | - | 0.00 |
| 0.00 0.00 | | | | | |
| On-Road Diesel | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 0.00 0.00 | | | | | |
| Worker Trips | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 0.00 0.00 | | | | | |

| | | Alternative C Output | | | | |
|---------------------------------|------|----------------------|--------|--------|------|------|
| Maximum lbs/day | | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | | | | | |
| Phase 3 - Building Construction | | | | | | |
| Bldg Const Off-Road Diesel | | 10.88 | 78.23 | 83.69 | - | 3.30 |
| 3.30 | 0.00 | | | | | |
| Bldg Const Worker Trips | | 0.35 | 0.21 | 4.50 | 0.00 | 0.09 |
| 0.00 | 0.09 | | | | | |
| Arch Coatings Off-Gas | | 21.70 | - | - | - | - |
| - | - | | | | | |
| Arch Coatings Worker Trips | | 0.33 | 0.17 | 3.80 | 0.00 | 0.09 |
| 0.00 | 0.09 | | | | | |
| Asphalt Off-Gas | | 0.28 | - | - | - | - |
| - | - | | | | | |
| Asphalt Off-Road Diesel | | 5.25 | 31.62 | 44.62 | - | 1.09 |
| 1.09 | 0.00 | | | | | |
| Asphalt On-Road Diesel | | 0.08 | 1.59 | 0.31 | 0.00 | 0.04 |
| 0.04 | 0.00 | | | | | |
| Asphalt Worker Trips | | 0.02 | 0.01 | 0.26 | 0.00 | 0.01 |
| 0.00 | 0.01 | | | | | |
| Maximum lbs/day | | 38.88 | 111.80 | 136.48 | 0.00 | 4.62 |
| 4.43 | 0.19 | | | | | |
| Max lbs/day all phases | | 38.88 | 111.80 | 136.48 | 0.00 | 4.62 |
| 4.43 | 0.19 | | | | | |

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Phase 1 - Demolition Assumptions: Phase Turned OFF

Phase 2 - Site Grading Assumptions
Start Month/Year for Phase 2: May '06
Phase 2 Duration: 4.0 months
On-Road Truck Travel (VMT): 0
Off-Road Equipment

| No. | Type | Horsepower | Load Factor | Hours/Day |
|-----|--------------------------|------------|-------------|-----------|
| 1 | Concrete/Industrial saws | 84 | 0.730 | 10.5 |
| 2 | Excavators | 180 | 0.580 | 10.5 |
| 1 | Rough Terrain Forklifts | 94 | 0.475 | 10.5 |
| 1 | Rubber Tired Dozers | 352 | 0.590 | 10.5 |
| 1 | Rubber Tired Loaders | 165 | 0.465 | 10.5 |
| 1 | Scrapers | 313 | 0.660 | 10.5 |

Phase 3 - Building Construction Assumptions
Start Month/Year for Phase 3: Sep '06
Phase 3 Duration: 11.0 months
Start Month/Year for SubPhase Building: Sep '06
SubPhase Building Duration: 10.2 months
Off-Road Equipment

| No. | Type | Horsepower | Load Factor | Hours/Day |
|-----|--------------------------|------------|-------------|-----------|
| 1 | Concrete/Industrial saws | 84 | 0.730 | 10.5 |
| 1 | Cranes | 190 | 0.430 | 10.5 |
| 2 | Off Highway Tractors | 255 | 0.410 | 10.5 |
| 1 | Rough Terrain Forklifts | 94 | 0.475 | 10.5 |
| 2 | Tractor/Loaders/Backhoes | 79 | 0.465 | 10.5 |

Start Month/Year for SubPhase Architectural Coatings: Jul '07

Alternative C Output
 SubPhase Architectural Coatings Duration: 1.0 months
 Start Month/Year for SubPhase Asphalt: Jul '07
 SubPhase Asphalt Duration: 0.8 months
 Acres to be Paved: 1.9
 Off-Road Equipment

| No. | Type | Horsepower | Load Factor | Hours/Day |
|-----|---------|------------|-------------|-----------|
| 1 | Graders | 174 | 0.575 | 10.5 |
| 1 | Pavers | 132 | 0.590 | 10.5 |
| 1 | Rollers | 114 | 0.430 | 10.5 |

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| AREA SOURCE EMISSION ESTIMATES (Summer Pounds per Day, Unmitigated) | | | | | |
|---|------|------|------|------|------|
| Source | ROG | NOX | CO | SO2 | PM10 |
| Natural Gas | 0.09 | 1.21 | 0.51 | 0 | 0.00 |
| Hearth - No summer emissions | | | | | |
| Landscaping | 0.11 | 0.00 | 0.72 | 0.00 | 0.00 |
| Consumer Prdcts | 7.83 | - | - | - | - |
| Architectural Coatings | 0.18 | - | - | - | - |
| TOTALS(lbs/day,unmitigated) | 8.21 | 1.21 | 1.23 | 0.00 | 0.00 |

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UNMITIGATED OPERATIONAL EMISSIONS

| | ROG | NOX | CO | SO2 | PM10 |
|---------------------------|-------|-------|--------|------|-------|
| Apartments low rise | 12.82 | 22.78 | 165.57 | 0.10 | 18.09 |
| TOTAL EMISSIONS (lbs/day) | 12.82 | 22.78 | 165.57 | 0.10 | 18.09 |

Does not include correction for passby trips.
 Does not include double counting adjustment for internal trips.

OPERATIONAL (Vehicle) EMISSION ESTIMATES

Analysis Year: 2007 Temperature (F): 60 Season: Summer

EMFAC Version: EMFAC2002 (9/2002)

Summary of Land Uses:

| Unit Type | Acreage | Trip Rate | No. Units | Total Trips |
|------------------------------|---------|--------------------------|-----------|-------------|
| Apartments low rise | 12.20 | 6.95 trips/dwelling unit | 160.00 | 1,112.00 |
| Sum of Total Trips | | | | 1,112.00 |
| Total Vehicle Miles Traveled | | | | 11,880.72 |

Vehicle Assumptions:

Alternative C Output

Fleet Mix:

| Vehicle Type | Percent Type | Non-Catalyst | Catalyst | Diesel |
|---------------------------|--------------|--------------|----------|--------|
| Light Auto | 55.20 | 1.80 | 97.80 | 0.40 |
| Light Truck < 3,750 lbs | 15.10 | 3.30 | 94.00 | 2.70 |
| Light Truck 3,751- 5,750 | 16.10 | 1.90 | 96.90 | 1.20 |
| Med Truck 5,751- 8,500 | 7.10 | 1.40 | 95.80 | 2.80 |
| Lite-Heavy 8,501-10,000 | 1.10 | 0.00 | 81.80 | 18.20 |
| Lite-Heavy 10,001-14,000 | 0.40 | 0.00 | 50.00 | 50.00 |
| Med-Heavy 14,001-33,000 | 1.00 | 0.00 | 20.00 | 80.00 |
| Heavy-Heavy 33,001-60,000 | 0.90 | 0.00 | 11.10 | 88.90 |
| Line Haul > 60,000 lbs | 0.00 | 0.00 | 0.00 | 100.00 |
| Urban Bus | 0.10 | 0.00 | 0.00 | 100.00 |
| Motorcycle | 1.70 | 82.40 | 17.60 | 0.00 |
| School Bus | 0.10 | 0.00 | 0.00 | 100.00 |
| Motor Home | 1.20 | 8.30 | 83.30 | 8.40 |

Travel Conditions

| | Residential | | | Commercial | | |
|---------------------------|-------------|-----------|------------|------------|----------|----------|
| | Home-Work | Home-Shop | Home-Other | Commute | Non-Work | Customer |
| Urban Trip Length (miles) | 10.8 | 7.3 | 7.5 | 9.5 | 7.4 | 7.4 |
| Rural Trip Length (miles) | 16.8 | 7.1 | 7.9 | 14.7 | 6.6 | 6.6 |
| Trip Speeds (mph) | 35.0 | 35.0 | 35.0 | 35.0 | 35.0 | 35.0 |
| % of Trips - Residential | 32.9 | 18.0 | 49.1 | | | |

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Changes made to the default values for Land Use Trip Percentages

The Trip Rate and/or Acreage values for Apartments low rise have changed from the defaults 6.9/10. to 6.95/12.2

Changes made to the default values for Construction

The user has overridden the Default Phase Lengths

Architectural Coatings: # ROG/ft2 (residential) changed from 0.0185 to 0.0013

Architectural Coatings: # ROG/ft2 (non-res) changed from 0.0185 to 0.0013

Changes made to the default values for Area

The wood stove percentage changed from 35 to 0.

The wood fireplace percentage changed from 10 to 0.

The natural gas fireplace percentage changed from 55 to 100.

The landscape year changed from 2005 to 2007.

The residential Arch. Coatings ROG emission factor changed from 0.0185 to 0.0013.

The nonresidential Arch. Coatings ROG emission factor changed from 0.0185 to 0.0013.

Changes made to the default values for Operations

The operational emission year changed from 2005 to 2007.

The operational winter selection item changed from 2 to 1.

The operational summer selection item changed from 4 to 3.

The home based work selection item changed from 8 to 7.

The home based shopping selection item changed from 8 to 7.

The home based other selection item changed from 8 to 7.

The commercial based commute selection item changed from 8 to 7.

The commercial based non-work selection item changed from 8 to 7.

Alternative C Output

The commercial based customer selection item changed from 8 to 7.

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URBEMIS 2002 For windows 8.7.0

File Name: C:\Program Files\URBEMIS 2002 Version
8.7\Projects2k2\Vista Village Cedar Grove Alt D.urb
Project Name: Alternative D Vista Village
Project Location: Mountain Counties and Rural Counties
On-Road Motor Vehicle Emissions Based on EMFAC2002 version 2.2

SUMMARY REPORT
(Pounds/Day - Summer)

CONSTRUCTION EMISSION ESTIMATES

| PM10 | PM10 | | ROG | NOX | CO | SO2 | PM10 |
|------------------------------|-------|--|-------|--------|--------|------|-------|
| *** 2006 *** | *** | | | | | | TOTAL |
| EXHAUST | DUST | | | | | | |
| TOTALS (lbs/day,unmitigated) | | | 18.82 | 128.24 | 152.12 | 0.00 | 35.29 |
| 5.28 | 30.01 | | | | | | |

| PM10 | PM10 | | ROG | NOX | CO | SO2 | PM10 |
|------------------------------|------|--|-------|--------|--------|------|-------|
| *** 2007 *** | *** | | | | | | TOTAL |
| EXHAUST | DUST | | | | | | |
| TOTALS (lbs/day,unmitigated) | | | 26.57 | 111.61 | 132.30 | 0.00 | 4.52 |
| 4.43 | 0.09 | | | | | | |

AREA SOURCE EMISSION ESTIMATES

| | ROG | NOX | CO | SO2 | PM10 |
|------------------------------|------|------|------|------|------|
| TOTALS (lbs/day,unmitigated) | 3.76 | 0.55 | 0.95 | 0.00 | 0.00 |

OPERATIONAL (VEHICLE) EMISSION ESTIMATES

| | ROG | NOX | CO | SO2 | PM10 |
|------------------------------|------|-------|-------|------|------|
| TOTALS (lbs/day,unmitigated) | 6.67 | 11.87 | 86.30 | 0.05 | 9.43 |

SUM OF AREA AND OPERATIONAL EMISSION ESTIMATES

| | ROG | NOX | CO | SO2 | PM10 |
|------------------------------|-------|-------|-------|------|------|
| TOTALS (lbs/day,unmitigated) | 10.42 | 12.42 | 87.25 | 0.05 | 9.43 |

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URBEMIS 2002 For windows 8.7.0

File Name: C:\Program Files\URBEMIS 2002 Version
8.7\Projects2k2\Vista Village Cedar Grove Alt D.urb
Project Name: Alternative D Vista Village
Project Location: Mountain Counties and Rural Counties
On-Road Motor Vehicle Emissions Based on EMFAC2002 version 2.2

SUMMARY REPORT
(Pounds/Day - Winter)

CONSTRUCTION EMISSION ESTIMATES

| PM10 | PM10 | | ROG | NOX | CO | SO2 | PM10 |
|------------------------------|-------|--|-------|--------|--------|------|-------|
| *** 2006 *** | *** | | | | | | TOTAL |
| EXHAUST | DUST | | | | | | |
| TOTALS (lbs/day,unmitigated) | | | 18.82 | 128.24 | 152.12 | 0.00 | 35.29 |
| 5.28 | 30.01 | | | | | | |

Alternative D 012407.txt

| PM10 | PM10 | | ROG | NOX | CO | SO2 | PM10 |
|------------------------------|------|-------|--------|--------|------|------|-------|
| *** 2007 *** | *** | | | | | | TOTAL |
| EXHAUST | DUST | | | | | | |
| TOTALS (lbs/day,unmitigated) | | 26.57 | 111.61 | 132.30 | 0.00 | 4.52 | |
| 4.43 | 0.09 | | | | | | |

AREA SOURCE EMISSION ESTIMATES

| | ROG | NOX | CO | SO2 | PM10 |
|------------------------------|------|------|------|------|------|
| TOTALS (lbs/day,unmitigated) | 3.67 | 0.94 | 0.40 | 0.00 | 0.03 |

OPERATIONAL (VEHICLE) EMISSION ESTIMATES

| | ROG | NOX | CO | SO2 | PM10 |
|------------------------------|------|-------|--------|------|------|
| TOTALS (lbs/day,unmitigated) | 8.44 | 14.24 | 101.62 | 0.05 | 9.43 |

SUM OF AREA AND OPERATIONAL EMISSION ESTIMATES

| | ROG | NOX | CO | SO2 | PM10 |
|------------------------------|-------|-------|--------|------|------|
| TOTALS (lbs/day,unmitigated) | 12.11 | 15.18 | 102.02 | 0.06 | 9.46 |

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URBEMIS 2002 For windows 8.7.0

File Name: C:\Program Files\URBEMIS 2002 Version
8.7\Projects2k2\Vista Village Cedar Grove Alt D.urb
Project Name: Alternative D Vista Village
Project Location: Mountain Counties and Rural Counties
On-Road Motor Vehicle Emissions Based on EMFAC2002 version 2.2

DETAIL REPORT
(Pounds/Day - Winter)

Construction Start Month and Year: May, 2006
Construction Duration: 15
Total Land Use Area to be Developed: 12.2 acres
Maximum Acreage Disturbed Per Day: 3 acres
Single Family Units: 0 Multi-Family Units: 72
Retail/Office/Institutional/Industrial Square Footage: 0

CONSTRUCTION EMISSION ESTIMATES UNMITIGATED (lbs/day)

| PM10 | | ROG | NOX | CO | SO2 | PM10 | PM10 |
|----------------------------------|-------|--------|--------|------|------|-------|---------|
| Source | | | | | | TOTAL | EXHAUST |
| DUST | | | | | | | |
| *** 2006*** | | | | | | | |
| Phase 1 - Demolition Emissions | | | | | | | |
| Fugitive Dust | - | - | - | - | - | 0.00 | - |
| 0.00 | | | | | | | |
| Off-Road Diesel | 0.00 | 0.00 | 0.00 | - | - | 0.00 | 0.00 |
| 0.00 | | | | | | | |
| On-Road Diesel | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 0.00 | | | | | | | |
| Worker Trips | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 0.00 | | | | | | | |
| Maximum lbs/day | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 0.00 | | | | | | | |
| Phase 2 - Site Grading Emissions | | | | | | | |
| Fugitive Dust | - | - | - | - | - | 30.00 | - |
| 30.00 | | | | | | | |
| Off-Road Diesel | 18.64 | 127.87 | 148.05 | - | - | 5.27 | 5.27 |
| 0.00 | | | | | | | |

| | | | | | | |
|---------------------------------|-------|--------|--------|------|-------|------|
| Alternative D 012407.txt | | | | | | |
| On-Road Diesel | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 0.00 | | | | | | |
| Worker Trips | 0.18 | 0.37 | 4.07 | 0.00 | 0.02 | 0.01 |
| 0.01 | | | | | | |
| Maximum lbs/day | 18.82 | 128.24 | 152.12 | 0.00 | 35.29 | 5.28 |
| 30.01 | | | | | | |
| Phase 3 - Building Construction | | | | | | |
| Bldg Const Off-Road Diesel | 10.88 | 81.56 | 81.47 | - | 3.62 | 3.62 |
| 0.00 | | | | | | |
| Bldg Const Worker Trips | 0.17 | 0.10 | 2.16 | 0.00 | 0.04 | 0.00 |
| 0.04 | | | | | | |
| Arch Coatings Off-Gas | 0.00 | - | - | - | - | - |
| - | | | | | | |
| Arch Coatings Worker Trips | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 0.00 | | | | | | |
| Asphalt Off-Gas | 0.00 | - | - | - | - | - |
| - | | | | | | |
| Asphalt Off-Road Diesel | 0.00 | 0.00 | 0.00 | - | 0.00 | 0.00 |
| 0.00 | | | | | | |
| Asphalt On-Road Diesel | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 0.00 | | | | | | |
| Asphalt worker Trips | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 0.00 | | | | | | |
| Maximum lbs/day | 11.05 | 81.67 | 83.62 | 0.00 | 3.67 | 3.63 |
| 0.04 | | | | | | |
| Max lbs/day all phases | 18.82 | 128.24 | 152.12 | 0.00 | 35.29 | 5.28 |
| 30.01 | | | | | | |

*** 2007***

Phase 1 - Demolition Emissions

| | | | | | | |
|-----------------|------|------|------|------|------|------|
| Fugitive Dust | - | - | - | - | 0.00 | - |
| 0.00 | | | | | | |
| Off-Road Diesel | 0.00 | 0.00 | 0.00 | - | 0.00 | 0.00 |
| 0.00 | | | | | | |
| On-Road Diesel | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 0.00 | | | | | | |
| Worker Trips | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 0.00 | | | | | | |
| Maximum lbs/day | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 0.00 | | | | | | |

Phase 2 - Site Grading Emissions

| | | | | | | |
|-----------------|------|------|------|------|------|------|
| Fugitive Dust | - | - | - | - | 0.00 | - |
| 0.00 | | | | | | |
| Off-Road Diesel | 0.00 | 0.00 | 0.00 | - | 0.00 | 0.00 |
| 0.00 | | | | | | |
| On-Road Diesel | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 0.00 | | | | | | |
| Worker Trips | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 0.00 | | | | | | |
| Maximum lbs/day | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 0.00 | | | | | | |

Phase 3 - Building Construction

| | | | | | | |
|----------------------------|-------|--------|--------|------|------|------|
| Bldg Const Off-Road Diesel | 10.88 | 78.23 | 83.69 | - | 3.30 | 3.30 |
| 0.00 | | | | | | |
| Bldg Const worker Trips | 0.16 | 0.10 | 2.03 | 0.00 | 0.04 | 0.00 |
| 0.04 | | | | | | |
| Arch Coatings Off-Gas | 9.76 | - | - | - | - | - |
| - | | | | | | |
| Arch Coatings Worker Trips | 0.15 | 0.08 | 1.71 | 0.00 | 0.04 | 0.00 |
| 0.04 | | | | | | |
| Asphalt Off-Gas | 0.28 | - | - | - | - | - |
| - | | | | | | |
| Asphalt Off-Road Diesel | 5.25 | 31.62 | 44.62 | - | 1.09 | 1.09 |
| 0.00 | | | | | | |
| Asphalt On-Road Diesel | 0.08 | 1.59 | 0.31 | 0.00 | 0.04 | 0.04 |
| 0.00 | | | | | | |
| Asphalt Worker Trips | 0.02 | 0.01 | 0.26 | 0.00 | 0.01 | 0.00 |
| 0.01 | | | | | | |
| Maximum lbs/day | 26.57 | 111.61 | 132.30 | 0.00 | 4.52 | 4.43 |

0.09

| | | | | | | |
|------------------------|-------|--------|--------|------|------|------|
| Max lbs/day all phases | 26.57 | 111.61 | 132.30 | 0.00 | 4.52 | 4.43 |
| 0.09 | | | | | | |

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Phase 1 - Demolition Assumptions: Phase Turned OFF

Phase 2 - Site Grading Assumptions

Start Month/Year for Phase 2: May '06

Phase 2 Duration: 4.0 months

On-Road Truck Travel (VMT): 0

Off-Road Equipment

| No. | Type | Horsepower | Load Factor | Hours/Day |
|-----|--------------------------|------------|-------------|-----------|
| 1 | Concrete/Industrial saws | 84 | 0.730 | 10.5 |
| 2 | Excavators | 180 | 0.580 | 10.5 |
| 1 | Rough Terrain Forklifts | 94 | 0.475 | 10.5 |
| 1 | Rubber Tired Dozers | 352 | 0.590 | 10.5 |
| 1 | Rubber Tired Loaders | 165 | 0.465 | 10.5 |
| 1 | Scrapers | 313 | 0.660 | 10.5 |

Phase 3 - Building Construction Assumptions

Start Month/Year for Phase 3: Sep '06

Phase 3 Duration: 11.0 months

Start Month/Year for SubPhase Building: Sep '06

SubPhase Building Duration: 10.2 months

Off-Road Equipment

| No. | Type | Horsepower | Load Factor | Hours/Day |
|-----|--------------------------|------------|-------------|-----------|
| 1 | Concrete/Industrial saws | 84 | 0.730 | 10.5 |
| 1 | Cranes | 190 | 0.430 | 10.5 |
| 2 | Off Highway Tractors | 255 | 0.410 | 10.5 |
| 1 | Rough Terrain Forklifts | 94 | 0.475 | 10.5 |
| 2 | Tractor/Loaders/Backhoes | 79 | 0.465 | 10.5 |

Start Month/Year for SubPhase Architectural Coatings: Jul '07

SubPhase Architectural Coatings Duration: 1.0 months

Start Month/Year for SubPhase Asphalt: Jul '07

SubPhase Asphalt Duration: 0.8 months

Acres to be Paved: 1.9

Off-Road Equipment

| No. | Type | Horsepower | Load Factor | Hours/Day |
|-----|---------|------------|-------------|-----------|
| 1 | Graders | 174 | 0.575 | 10.5 |
| 1 | Pavers | 132 | 0.590 | 10.5 |
| 1 | Rollers | 114 | 0.430 | 10.5 |

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AREA SOURCE EMISSION ESTIMATES (winter Pounds per Day, Unmitigated)

| Source | ROG | NOX | CO | SO2 | PM10 |
|-----------------------------------|------|------|------|------|------|
| Natural Gas | 0.04 | 0.54 | 0.23 | 0 | 0.00 |
| Hearth | 0.02 | 0.40 | 0.17 | 0.00 | 0.03 |
| Landscaping - No winter emissions | | | | | |
| Consumer Prdcts | 3.52 | - | - | - | - |
| Architectural Coatings | 0.08 | - | - | - | - |
| TOTALS(lbs/day,unmitigated) | 3.67 | 0.94 | 0.40 | 0.00 | 0.03 |

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UNMITIGATED OPERATIONAL EMISSIONS

| | ROG | NOX | CO | SO2 | PM10 |
|---------------------------|------|-------|--------|------|------|
| Apartments low rise | 8.44 | 14.24 | 101.62 | 0.05 | 9.43 |
| TOTAL EMISSIONS (lbs/day) | 8.44 | 14.24 | 101.62 | 0.05 | 9.43 |

Does not include correction for passby trips.
Does not include double counting adjustment for internal trips.

OPERATIONAL (Vehicle) EMISSION ESTIMATES

Analysis Year: 2007 Temperature (F): 40 Season: winter

EMFAC Version: EMFAC2002 (9/2002)

Summary of Land Uses:

| Unit Type | Acreage | Trip Rate | No. Units | Total Trips |
|------------------------------|---------|--------------------------|-----------|-------------|
| Apartments low rise | 12.20 | 8.05 trips/dwelling unit | 72.00 | 579.60 |
| Sum of Total Trips | | | | 579.60 |
| Total Vehicle Miles Traveled | | | | 6,192.50 |

Vehicle Assumptions:

Fleet Mix:

| Vehicle Type | Percent Type | Non-Catalyst | Catalyst | Diesel |
|---------------------------|--------------|--------------|----------|--------|
| Light Auto | 55.20 | 1.80 | 97.80 | 0.40 |
| Light Truck < 3,750 lbs | 15.10 | 3.30 | 94.00 | 2.70 |
| Light Truck 3,751- 5,750 | 16.10 | 1.90 | 96.90 | 1.20 |
| Med Truck 5,751- 8,500 | 7.10 | 1.40 | 95.80 | 2.80 |
| Lite-Heavy 8,501-10,000 | 1.10 | 0.00 | 81.80 | 18.20 |
| Lite-Heavy 10,001-14,000 | 0.40 | 0.00 | 50.00 | 50.00 |
| Med-Heavy 14,001-33,000 | 1.00 | 0.00 | 20.00 | 80.00 |
| Heavy-Heavy 33,001-60,000 | 0.90 | 0.00 | 11.10 | 88.90 |
| Line Haul > 60,000 lbs | 0.00 | 0.00 | 0.00 | 100.00 |
| Urban Bus | 0.10 | 0.00 | 0.00 | 100.00 |
| Motorcycle | 1.70 | 82.40 | 17.60 | 0.00 |
| School Bus | 0.10 | 0.00 | 0.00 | 100.00 |
| Motor Home | 1.20 | 8.30 | 83.30 | 8.40 |

Travel Conditions

| | Residential | | | Commercial | | |
|---------------------------|-------------|-----------|------------|------------|----------|----------|
| | Home-Work | Home-Shop | Home-Other | Commute | Non-Work | Customer |
| Urban Trip Length (miles) | 10.8 | 7.3 | 7.5 | 9.5 | 7.4 | 7.4 |
| Rural Trip Length (miles) | 16.8 | 7.1 | 7.9 | 14.7 | 6.6 | 6.6 |
| Trip Speeds (mph) | 35.0 | 35.0 | 35.0 | 35.0 | 35.0 | 35.0 |
| % of Trips - Residential | 32.9 | 18.0 | 49.1 | | | |

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Changes made to the default values for Land Use Trip Percentages

The Trip Rate and/or Acreage values for Apartments low rise
have changed from the defaults 6.9/4.5 to 8.05/12.2

Changes made to the default values for Construction

The user has overridden the Default Phase Lengths
Architectural Coatings: # ROG/ft2 (residential) changed from 0.0185 to 0.0013
Architectural Coatings: # ROG/ft2 (non-res) changed from 0.0185 to 0.0013

Changes made to the default values for Area

The wood stove percentage changed from 35 to 0.
 The wood fireplace percentage changed from 10 to 0.
 The natural gas fireplace percentage changed from 55 to 100.
 The landscape year changed from 2005 to 2007.
 The residential Arch. Coatings ROG emission factor changed from 0.0185 to 0.0013.
 The nonresidential Arch. Coatings ROG emission factor changed from 0.0185 to 0.0013.

Changes made to the default values for operations

The operational emission year changed from 2005 to 2007.
 The operational winter selection item changed from 2 to 1.
 The operational summer selection item changed from 4 to 3.
 The home based work selection item changed from 8 to 7.
 The home based shopping selection item changed from 8 to 7.
 The home based other selection item changed from 8 to 7.
 The commercial based commute selection item changed from 8 to 7.
 The commercial based non-work selection item changed from 8 to 7.
 The commercial based customer selection item changed from 8 to 7.

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URBEMIS 2002 For Windows 8.7.0

File Name: C:\Program Files\URBEMIS 2002 Version
 8.7\Projects2k2\Vista Village Cedar Grove Alt D.urb
 Project Name: Alternative D Vista Village
 Project Location: Mountain Counties and Rural Counties
 On-Road Motor Vehicle Emissions Based on EMFAC2002 version 2.2

DETAIL REPORT
 (Pounds/Day - Summer)

Construction Start Month and Year: May, 2006
 Construction Duration: 15
 Total Land Use Area to be Developed: 12.2 acres
 Maximum Acreage Disturbed Per Day: 3 acres
 Single Family Units: 0 Multi-Family Units: 72
 Retail/Office/Institutional/Industrial Square Footage: 0

CONSTRUCTION EMISSION ESTIMATES UNMITIGATED (lbs/day)

| | PM10 Source DUST | ROG | NOX | CO | SO2 | PM10 TOTAL | PM10 EXHAUST |
|----------------------------------|------------------------|--------|--------|------|------|---------------|-----------------|
| *** 2006*** | | | | | | | |
| Phase 1 - Demolition Emissions | | | | | | | |
| Fugitive Dust | - | - | - | - | - | 0.00 | - |
| 0.00 | | | | | | | |
| off-Road Diesel | 0.00 | 0.00 | 0.00 | - | - | 0.00 | 0.00 |
| 0.00 | | | | | | | |
| on-Road Diesel | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 0.00 | | | | | | | |
| worker Trips | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 0.00 | | | | | | | |
| Maximum lbs/day | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 0.00 | | | | | | | |
| Phase 2 - Site Grading Emissions | | | | | | | |
| Fugitive Dust | - | - | - | - | - | 30.00 | - |
| 30.00 | | | | | | | |
| off-Road Diesel | 18.64 | 127.87 | 148.05 | - | - | 5.27 | 5.27 |
| 0.00 | | | | | | | |
| on-Road Diesel | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 0.00 | | | | | | | |
| worker Trips | 0.18 | 0.37 | 4.07 | 0.00 | 0.00 | 0.02 | 0.01 |
| 0.01 | | | | | | | |
| Maximum lbs/day | 18.82 | 128.24 | 152.12 | 0.00 | 0.00 | 35.29 | 5.28 |
| | | | | | | | |

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30.01

Phase 3 - Building Construction

| | | | | | | |
|------------------------------------|-------|--------|--------|------|-------|------|
| Bldg Const Off-Road Diesel 0.00 | 10.88 | 81.56 | 81.47 | - | 3.62 | 3.62 |
| Bldg Const Worker Trips 0.04 | 0.17 | 0.10 | 2.16 | 0.00 | 0.04 | 0.00 |
| Arch Coatings Off-Gas - | 0.00 | - | - | - | - | - |
| Arch Coatings Worker Trips 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Asphalt Off-Gas - | 0.00 | - | - | - | - | - |
| Asphalt Off-Road Diesel 0.00 | 0.00 | 0.00 | 0.00 | - | 0.00 | 0.00 |
| Asphalt On-Road Diesel 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Asphalt Worker Trips 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Maximum lbs/day 0.04 | 11.05 | 81.67 | 83.62 | 0.00 | 3.67 | 3.63 |
| Max lbs/day all phases 30.01 | 18.82 | 128.24 | 152.12 | 0.00 | 35.29 | 5.28 |

*** 2007***

Phase 1 - Demolition Emissions

| | | | | | | |
|-------------------------|------|------|------|------|------|------|
| Fugitive Dust 0.00 | - | - | - | - | 0.00 | - |
| Off-Road Diesel 0.00 | 0.00 | 0.00 | 0.00 | - | 0.00 | 0.00 |
| On-Road Diesel 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Worker Trips 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Maximum lbs/day 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

Phase 2 - Site Grading Emissions

| | | | | | | |
|-------------------------|------|------|------|------|------|------|
| Fugitive Dust 0.00 | - | - | - | - | 0.00 | - |
| Off-Road Diesel 0.00 | 0.00 | 0.00 | 0.00 | - | 0.00 | 0.00 |
| On-Road Diesel 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Worker Trips 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Maximum lbs/day 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

Phase 3 - Building Construction

| | | | | | | |
|------------------------------------|-------|--------|--------|------|------|------|
| Bldg Const Off-Road Diesel 0.00 | 10.88 | 78.23 | 83.69 | - | 3.30 | 3.30 |
| Bldg Const Worker Trips 0.04 | 0.16 | 0.10 | 2.03 | 0.00 | 0.04 | 0.00 |
| Arch Coatings Off-Gas - | 9.76 | - | - | - | - | - |
| Arch Coatings Worker Trips 0.04 | 0.15 | 0.08 | 1.71 | 0.00 | 0.04 | 0.00 |
| Asphalt Off-Gas - | 0.28 | - | - | - | - | - |
| Asphalt Off-Road Diesel 0.00 | 5.25 | 31.62 | 44.62 | - | 1.09 | 1.09 |
| Asphalt On-Road Diesel 0.00 | 0.08 | 1.59 | 0.31 | 0.00 | 0.04 | 0.04 |
| Asphalt Worker Trips 0.01 | 0.02 | 0.01 | 0.26 | 0.00 | 0.01 | 0.00 |
| Maximum lbs/day 0.09 | 26.57 | 111.61 | 132.30 | 0.00 | 4.52 | 4.43 |
| Max lbs/day all phases 0.09 | 26.57 | 111.61 | 132.30 | 0.00 | 4.52 | 4.43 |

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Phase 1 - Demolition Assumptions: Phase Turned OFF

Phase 2 - Site Grading Assumptions

Start Month/Year for Phase 2: May '06

Phase 2 Duration: 4.0 months

On-Road Truck Travel (VMT): 0

Off-Road Equipment

| No. | Type | Horsepower | Load Factor | Hours/Day |
|-----|--------------------------|------------|-------------|-----------|
| 1 | Concrete/Industrial saws | 84 | 0.730 | 10.5 |
| 2 | Excavators | 180 | 0.580 | 10.5 |
| 1 | Rough Terrain Forklifts | 94 | 0.475 | 10.5 |
| 1 | Rubber Tired Dozers | 352 | 0.590 | 10.5 |
| 1 | Rubber Tired Loaders | 165 | 0.465 | 10.5 |
| 1 | Scrapers | 313 | 0.660 | 10.5 |

Phase 3 - Building Construction Assumptions

Start Month/Year for Phase 3: Sep '06

Phase 3 Duration: 11.0 months

Start Month/Year for SubPhase Building: Sep '06

SubPhase Building Duration: 10.2 months

Off-Road Equipment

| No. | Type | Horsepower | Load Factor | Hours/Day |
|-----|--------------------------|------------|-------------|-----------|
| 1 | Concrete/Industrial saws | 84 | 0.730 | 10.5 |
| 1 | Cranes | 190 | 0.430 | 10.5 |
| 2 | Off Highway Tractors | 255 | 0.410 | 10.5 |
| 1 | Rough Terrain Forklifts | 94 | 0.475 | 10.5 |
| 2 | Tractor/Loaders/Backhoes | 79 | 0.465 | 10.5 |

Start Month/Year for SubPhase Architectural Coatings: Jul '07

SubPhase Architectural Coatings Duration: 1.0 months

Start Month/Year for SubPhase Asphalt: Jul '07

SubPhase Asphalt Duration: 0.8 months

Acres to be Paved: 1.9

Off-Road Equipment

| No. | Type | Horsepower | Load Factor | Hours/Day |
|-----|---------|------------|-------------|-----------|
| 1 | Graders | 174 | 0.575 | 10.5 |
| 1 | Pavers | 132 | 0.590 | 10.5 |
| 1 | Rollers | 114 | 0.430 | 10.5 |

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AREA SOURCE EMISSION ESTIMATES (Summer Pounds per Day, Unmitigated)

| Source | ROG | NOX | CO | SO2 | PM10 |
|------------------------------|------|------|------|------|------|
| Natural Gas | 0.04 | 0.54 | 0.23 | 0 | 0.00 |
| Hearth - No summer emissions | | | | | |
| Landscaping | 0.11 | 0.00 | 0.72 | 0.00 | 0.00 |
| Consumer Prdcts | 3.52 | - | - | - | - |
| Architectural Coatings | 0.08 | - | - | - | - |
| TOTALS(lbs/day,unmitigated) | 3.76 | 0.55 | 0.95 | 0.00 | 0.00 |

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UNMITIGATED OPERATIONAL EMISSIONS

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| | ROG | NOx | CO | SO2 | PM10 |
|---------------------------|------|-------|-------|------|------|
| Apartments low rise | 6.67 | 11.87 | 86.30 | 0.05 | 9.43 |
| TOTAL EMISSIONS (lbs/day) | 6.67 | 11.87 | 86.30 | 0.05 | 9.43 |

Does not include correction for passby trips.
Does not include double counting adjustment for internal trips.

OPERATIONAL (Vehicle) EMISSION ESTIMATES

Analysis Year: 2007 Temperature (F): 60 Season: Summer

EMFAC Version: EMFAC2002 (9/2002)

Summary of Land Uses:

| Unit Type | Acreage | Trip Rate | No. Units | Total Trips |
|------------------------------|---------|--------------------------|-----------|-------------|
| Apartments low rise | 12.20 | 8.05 trips/dwelling unit | 72.00 | 579.60 |
| Sum of Total Trips | | | | 579.60 |
| Total Vehicle Miles Traveled | | | | 6,192.50 |

Vehicle Assumptions:

Fleet Mix:

| Vehicle Type | Percent Type | Non-Catalyst | Catalyst | Diesel |
|---------------------------|--------------|--------------|----------|--------|
| Light Auto | 55.20 | 1.80 | 97.80 | 0.40 |
| Light Truck < 3,750 lbs | 15.10 | 3.30 | 94.00 | 2.70 |
| Light Truck 3,751- 5,750 | 16.10 | 1.90 | 96.90 | 1.20 |
| Med Truck 5,751- 8,500 | 7.10 | 1.40 | 95.80 | 2.80 |
| Lite-Heavy 8,501-10,000 | 1.10 | 0.00 | 81.80 | 18.20 |
| Lite-Heavy 10,001-14,000 | 0.40 | 0.00 | 50.00 | 50.00 |
| Med-Heavy 14,001-33,000 | 1.00 | 0.00 | 20.00 | 80.00 |
| Heavy-Heavy 33,001-60,000 | 0.90 | 0.00 | 11.10 | 88.90 |
| Line Haul > 60,000 lbs | 0.00 | 0.00 | 0.00 | 100.00 |
| Urban Bus | 0.10 | 0.00 | 0.00 | 100.00 |
| Motorcycle | 1.70 | 82.40 | 17.60 | 0.00 |
| School Bus | 0.10 | 0.00 | 0.00 | 100.00 |
| Motor Home | 1.20 | 8.30 | 83.30 | 8.40 |

Travel Conditions

| | Residential | | | Commercial | | |
|---------------------------|-------------|-----------|------------|------------|----------|----------|
| | Home-Work | Home-Shop | Home-Other | Commute | Non-Work | Customer |
| Urban Trip Length (miles) | 10.8 | 7.3 | 7.5 | 9.5 | 7.4 | 7.4 |
| Rural Trip Length (miles) | 16.8 | 7.1 | 7.9 | 14.7 | 6.6 | 6.6 |
| Trip Speeds (mph) | 35.0 | 35.0 | 35.0 | 35.0 | 35.0 | 35.0 |
| % of Trips - Residential | 32.9 | 18.0 | 49.1 | | | |

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Changes made to the default values for Land Use Trip Percentages

The Trip Rate and/or Acreage values for Apartments low rise have changed from the defaults 6.9/4.5 to 8.05/12.2

Changes made to the default values for Construction

The user has overridden the Default Phase Lengths
Architectural Coatings: # ROG/ft2 (residential) changed from 0.0185 to 0.0013
Architectural Coatings: # ROG/ft2 (non-res) changed from 0.0185 to 0.0013

Changes made to the default values for Area

The wood stove percentage changed from 35 to 0.
The wood fireplace percentage changed from 10 to 0.

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The natural gas fireplace percentage changed from 55 to 100.

The landscape year changed from 2005 to 2007.

The residential Arch. Coatings ROG emission factor changed from 0.0185 to 0.0013.

The nonresidential Arch. Coatings ROG emission factor changed from 0.0185 to 0.0013.

Changes made to the default values for Operations

The operational emission year changed from 2005 to 2007.

The operational winter selection item changed from 2 to 1.

The operational summer selection item changed from 4 to 3.

The home based work selection item changed from 8 to 7.

The home based shopping selection item changed from 8 to 7.

The home based other selection item changed from 8 to 7.

The commercial based commute selection item changed from 8 to 7.

The commercial based non-work selection item changed from 8 to 7.

The commercial based customer selection item changed from 8 to 7.

Alternative E Output

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URBEMIS 2002 For windows 8.7.0

File Name: C:\Program Files\URBEMIS 2002 Version
8.7\Projects2k2\Alternative E.urb
Project Name: Alternative E
Project Location: Mountain Counties and Rural Counties
On-Road Motor Vehicle Emissions Based on EMFAC2002 version 2.2

SUMMARY REPORT (Pounds/Day - Summer)

CONSTRUCTION EMISSION ESTIMATES

| PM10 | PM10 | | | | | PM10 |
|------------------------------|-------|-------|--------|--------|------|-------|
| *** 2006 *** | *** | ROG | NOX | CO | SO2 | TOTAL |
| EXHAUST | DUST | | | | | |
| TOTALS (lbs/day,unmitigated) | | 18.82 | 128.24 | 152.12 | 0.00 | 35.29 |
| 5.28 | 30.01 | | | | | |

| PM10 | PM10 | | | | | PM10 |
|------------------------------|------|-------|--------|--------|------|-------|
| *** 2007 *** | *** | ROG | NOX | CO | SO2 | TOTAL |
| EXHAUST | DUST | | | | | |
| TOTALS (lbs/day,unmitigated) | | 37.76 | 111.79 | 136.10 | 0.00 | 4.62 |
| 4.43 | 0.19 | | | | | |

AREA SOURCE EMISSION ESTIMATES

| | ROG | NOX | CO | SO2 | PM10 |
|------------------------------|------|------|------|------|------|
| TOTALS (lbs/day,unmitigated) | 7.92 | 1.15 | 1.93 | 0.00 | 0.01 |

OPERATIONAL (VEHICLE) EMISSION ESTIMATES

| | ROG | NOX | CO | SO2 | PM10 |
|------------------------------|-------|-------|--------|------|-------|
| TOTALS (lbs/day,unmitigated) | 12.94 | 23.02 | 167.34 | 0.10 | 18.28 |

SUM OF AREA AND OPERATIONAL EMISSION ESTIMATES

| | ROG | NOX | CO | SO2 | PM10 |
|------------------------------|-------|-------|--------|------|-------|
| TOTALS (lbs/day,unmitigated) | 20.86 | 24.18 | 169.26 | 0.10 | 18.29 |

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URBEMIS 2002 For windows 8.7.0

File Name: C:\Program Files\URBEMIS 2002 Version
8.7\Projects2k2\Alternative E.urb
Project Name: Alternative E
Project Location: Mountain Counties and Rural Counties
On-Road Motor Vehicle Emissions Based on EMFAC2002 version 2.2

Alternative E Output

SUMMARY REPORT (Pounds/Day - Winter)

CONSTRUCTION EMISSION ESTIMATES

| PM10 *** 2006 *** | PM10 *** | ROG | NOx | CO | SO2 | PM10 TOTAL |
|------------------------------|-------------|-------|--------|--------|------|---------------|
| EXHAUST | DUST | | | | | |
| TOTALS (lbs/day,unmitigated) | | 18.82 | 128.24 | 152.12 | 0.00 | 35.29 |
| 5.28 | 30.01 | | | | | |

| PM10 *** 2007 *** | PM10 *** | ROG | NOx | CO | SO2 | PM10 TOTAL |
|------------------------------|-------------|-------|--------|--------|------|---------------|
| EXHAUST | DUST | | | | | |
| TOTALS (lbs/day,unmitigated) | | 37.76 | 111.79 | 136.10 | 0.00 | 4.62 |
| 4.43 | 0.19 | | | | | |

AREA SOURCE EMISSION ESTIMATES

| | ROG | NOx | CO | SO2 | PM10 |
|------------------------------|------|------|------|------|------|
| TOTALS (lbs/day,unmitigated) | 7.75 | 1.99 | 0.85 | 0.01 | 0.07 |

OPERATIONAL (VEHICLE) EMISSION ESTIMATES

| | ROG | NOx | CO | SO2 | PM10 |
|------------------------------|-------|-------|--------|------|-------|
| TOTALS (lbs/day,unmitigated) | 16.36 | 27.61 | 197.05 | 0.10 | 18.28 |

SUM OF AREA AND OPERATIONAL EMISSION ESTIMATES

| | ROG | NOx | CO | SO2 | PM10 |
|------------------------------|-------|-------|--------|------|-------|
| TOTALS (lbs/day,unmitigated) | 24.11 | 29.60 | 197.89 | 0.11 | 18.35 |

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URBEMIS 2002 For Windows 8.7.0

File Name: C:\Program Files\URBEMIS 2002 Version
8.7\Projects2k2\Alternative E.urb
Project Name: Alternative E
Project Location: Mountain Counties and Rural Counties
On-Road Motor Vehicle Emissions Based on EMFAC2002 version 2.2

DETAIL REPORT (Pounds/Day - Winter)

Construction Start Month and Year: May, 2006
Construction Duration: 15
Total Land Use Area to be Developed: 12.2 acres
Maximum Acreage Disturbed Per Day: 3 acres
Single Family Units: 0 Multi-Family Units: 152
Retail/Office/Institutional/Industrial Square Footage: 0

CONSTRUCTION EMISSION ESTIMATES UNMITIGATED (lbs/day)

| | | Alternative E Output | | | | PM10 | PM10 |
|----------------------------------|--------|----------------------|--------|--------|------|-------|------|
| PM10 | Source | ROG | NOX | CO | SO2 | TOTAL | |
| EXHAUST | DUST | | | | | | |
| *** 2006*** | | | | | | | |
| Phase 1 - Demolition Emissions | | | | | | | |
| Fugitive Dust | | - | - | - | - | 0.00 | |
| - | 0.00 | | | | | | |
| Off-Road Diesel | | 0.00 | 0.00 | 0.00 | - | 0.00 | |
| 0.00 | 0.00 | | | | | | |
| On-Road Diesel | | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 0.00 | 0.00 | | | | | | |
| Worker Trips | | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 0.00 | 0.00 | | | | | | |
| Maximum lbs/day | | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 0.00 | 0.00 | | | | | | |
| Phase 2 - Site Grading Emissions | | | | | | | |
| Fugitive Dust | | - | - | - | - | 30.00 | |
| - | 30.00 | | | | | | |
| Off-Road Diesel | | 18.64 | 127.87 | 148.05 | - | 5.27 | |
| 5.27 | 0.00 | | | | | | |
| On-Road Diesel | | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 0.00 | 0.00 | | | | | | |
| Worker Trips | | 0.18 | 0.37 | 4.07 | 0.00 | 0.02 | |
| 0.01 | 0.01 | | | | | | |
| Maximum lbs/day | | 18.82 | 128.24 | 152.12 | 0.00 | 35.29 | |
| 5.28 | 30.01 | | | | | | |
| Phase 3 - Building Construction | | | | | | | |
| Bldg Const Off-Road Diesel | | 10.88 | 81.56 | 81.47 | - | 3.62 | |
| 3.62 | 0.00 | | | | | | |
| Bldg Const Worker Trips | | 0.36 | 0.22 | 4.55 | 0.00 | 0.09 | |
| 0.00 | 0.09 | | | | | | |
| Arch Coatings Off-Gas | | 0.00 | - | - | - | - | |
| - | - | | | | | | |
| Arch Coatings Worker Trips | | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 0.00 | 0.00 | | | | | | |
| Asphalt Off-Gas | | 0.00 | - | - | - | - | |
| - | - | | | | | | |
| Asphalt Off-Road Diesel | | 0.00 | 0.00 | 0.00 | - | 0.00 | |
| 0.00 | 0.00 | | | | | | |
| Asphalt On-Road Diesel | | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 0.00 | 0.00 | | | | | | |
| Asphalt Worker Trips | | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 0.00 | 0.00 | | | | | | |
| Maximum lbs/day | | 11.23 | 81.78 | 86.02 | 0.00 | 3.72 | |
| 3.63 | 0.09 | | | | | | |
| Max lbs/day all phases | | 18.82 | 128.24 | 152.12 | 0.00 | 35.29 | |
| 5.28 | 30.01 | | | | | | |
| *** 2007*** | | | | | | | |
| Phase 1 - Demolition Emissions | | | | | | | |
| Fugitive Dust | | - | - | - | - | 0.00 | |
| - | 0.00 | | | | | | |
| Off-Road Diesel | | 0.00 | 0.00 | 0.00 | - | 0.00 | |
| 0.00 | 0.00 | | | | | | |
| On-Road Diesel | | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 0.00 | 0.00 | | | | | | |
| Worker Trips | | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 0.00 | 0.00 | | | | | | |

| Maximum lbs/day | | Alternative E output | | | | |
|----------------------------------|-------|----------------------|--------|------|------|------|
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Phase 2 - Site Grading Emissions | | | | | | |
| Fugitive Dust | - | - | - | - | - | 0.00 |
| - 0.00 | | | | | | |
| Off-Road Diesel | 0.00 | 0.00 | 0.00 | - | - | 0.00 |
| 0.00 0.00 | | | | | | |
| On-Road Diesel | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 0.00 0.00 | | | | | | |
| Worker Trips | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 0.00 0.00 | | | | | | |
| Maximum lbs/day | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 0.00 0.00 | | | | | | |
| Phase 3 - Building Construction | | | | | | |
| Bldg Const Off-Road Diesel | 10.88 | 78.23 | 83.69 | - | - | 3.30 |
| 3.30 0.00 | | | | | | |
| Bldg Const Worker Trips | 0.33 | 0.20 | 4.28 | 0.00 | 0.00 | 0.09 |
| 0.00 0.09 | | | | | | |
| Arch Coatings Off-Gas | 20.61 | - | - | - | - | - |
| - - | | | | | | |
| Arch Coatings Worker Trips | 0.32 | 0.17 | 3.61 | 0.00 | 0.00 | 0.09 |
| 0.00 0.09 | | | | | | |
| Asphalt Off-Gas | 0.28 | - | - | - | - | - |
| - - | | | | | | |
| Asphalt Off-Road Diesel | 5.25 | 31.62 | 44.62 | - | - | 1.09 |
| 1.09 0.00 | | | | | | |
| Asphalt On-Road Diesel | 0.08 | 1.59 | 0.31 | 0.00 | 0.00 | 0.04 |
| 0.04 0.00 | | | | | | |
| Asphalt Worker Trips | 0.02 | 0.01 | 0.26 | 0.00 | 0.00 | 0.01 |
| 0.00 0.01 | | | | | | |
| Maximum lbs/day | 37.76 | 111.79 | 136.10 | 0.00 | 0.00 | 4.62 |
| 4.43 0.19 | | | | | | |
| Max lbs/day all phases | 37.76 | 111.79 | 136.10 | 0.00 | 0.00 | 4.62 |
| 4.43 0.19 | | | | | | |

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Phase 1 - Demolition Assumptions: Phase Turned OFF

Phase 2 - Site Grading Assumptions
Start Month/Year for Phase 2: May '06
Phase 2 Duration: 4.0 months
On-Road Truck Travel (VMT): 0
Off-Road Equipment

| No. | Type | Horsepower | Load Factor | Hours/Day |
|-----|--------------------------|------------|-------------|-----------|
| 1 | Concrete/Industrial saws | 84 | 0.730 | 10.5 |
| 2 | Excavators | 180 | 0.580 | 10.5 |
| 1 | Rough Terrain Forklifts | 94 | 0.475 | 10.5 |
| 1 | Rubber Tired Dozers | 352 | 0.590 | 10.5 |
| 1 | Rubber Tired Loaders | 165 | 0.465 | 10.5 |
| 1 | Scrapers | 313 | 0.660 | 10.5 |

Phase 3 - Building Construction Assumptions

Alternative E Output

Start Month/Year for Phase 3: Sep '06

Phase 3 Duration: 11.0 months

Start Month/Year for SubPhase Building: Sep '06

SubPhase Building Duration: 10.2 months

Off-Road Equipment

| No. | Type | Horsepower | Load Factor | Hours/Day |
|-----|--------------------------|------------|-------------|-----------|
| 1 | Concrete/Industrial saws | 84 | 0.730 | 10.5 |
| 1 | Cranes | 190 | 0.430 | 10.5 |
| 2 | Off Highway Tractors | 255 | 0.410 | 10.5 |
| 1 | Rough Terrain Forklifts | 94 | 0.475 | 10.5 |
| 2 | Tractor/Loaders/Backhoes | 79 | 0.465 | 10.5 |

Start Month/Year for SubPhase Architectural Coatings: Jul '07

SubPhase Architectural Coatings Duration: 1.0 months

Start Month/Year for SubPhase Asphalt: Jul '07

SubPhase Asphalt Duration: 0.8 months

Acres to be Paved: 1.9

Off-Road Equipment

| No. | Type | Horsepower | Load Factor | Hours/Day |
|-----|---------|------------|-------------|-----------|
| 1 | Graders | 174 | 0.575 | 10.5 |
| 1 | Pavers | 132 | 0.590 | 10.5 |
| 1 | Rollers | 114 | 0.430 | 10.5 |

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AREA SOURCE EMISSION ESTIMATES (Winter Pounds per Day, Unmitigated)

| Source | ROG | NOX | CO | SO2 | PM10 |
|-----------------------------------|------|------|------|------|------|
| Natural Gas | 0.09 | 1.15 | 0.49 | 0 | 0.00 |
| Hearth | 0.05 | 0.84 | 0.36 | 0.01 | 0.07 |
| Landscaping - No winter emissions | | | | | |
| Consumer Prdcts | 7.44 | - | - | - | - |
| Architectural Coatings | 0.17 | - | - | - | - |
| TOTALS(lbs/day,unmitigated) | 7.75 | 1.99 | 0.85 | 0.01 | 0.07 |

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UNMITIGATED OPERATIONAL EMISSIONS

| | ROG | NOX | CO | SO2 | PM10 |
|---------------------------|-------|-------|--------|------|-------|
| Apartments low rise | 10.92 | 18.43 | 131.50 | 0.07 | 12.20 |
| Condo/townhouse general | 5.44 | 9.19 | 65.55 | 0.03 | 6.08 |
| TOTAL EMISSIONS (lbs/day) | 16.36 | 27.61 | 197.05 | 0.10 | 18.28 |

Does not include correction for passby trips.

Does not include double counting adjustment for internal trips.

OPERATIONAL (Vehicle) EMISSION ESTIMATES

Analysis Year: 2007 Temperature (F): 40 Season: Winter

EMFAC Version: EMFAC2002 (9/2002)

Alternative E Output

Summary of Land Uses:

| Unit Type | Acreage | Trip Rate | No. Units | Total Trips |
|-------------------------|---------|--------------------------|------------------------------|-------------|
| Apartments low rise | 8.03 | 7.50 trips/dwelling unit | 100.00 | 750.00 |
| Condo/townhouse general | 4.17 | 7.19 trips/dwelling unit | 52.00 | 373.88 |
| | | | Sum of Total Trips | 1,123.88 |
| | | | Total Vehicle Miles Traveled | 12,007.65 |

Vehicle Assumptions:

Fleet Mix:

| Vehicle Type | Percent Type | Non-Catalyst | Catalyst | Diesel |
|---------------------------|--------------|--------------|----------|--------|
| Light Auto | 55.20 | 1.80 | 97.80 | 0.40 |
| Light Truck < 3,750 lbs | 15.10 | 3.30 | 94.00 | 2.70 |
| Light Truck 3,751- 5,750 | 16.10 | 1.90 | 96.90 | 1.20 |
| Med Truck 5,751- 8,500 | 7.10 | 1.40 | 95.80 | 2.80 |
| Lite-Heavy 8,501-10,000 | 1.10 | 0.00 | 81.80 | 18.20 |
| Lite-Heavy 10,001-14,000 | 0.40 | 0.00 | 50.00 | 50.00 |
| Med-Heavy 14,001-33,000 | 1.00 | 0.00 | 20.00 | 80.00 |
| Heavy-Heavy 33,001-60,000 | 0.90 | 0.00 | 11.10 | 88.90 |
| Line Haul > 60,000 lbs | 0.00 | 0.00 | 0.00 | 100.00 |
| Urban Bus | 0.10 | 0.00 | 0.00 | 100.00 |
| Motorcycle | 1.70 | 82.40 | 17.60 | 0.00 |
| School Bus | 0.10 | 0.00 | 0.00 | 100.00 |
| Motor Home | 1.20 | 8.30 | 83.30 | 8.40 |

Travel Conditions

| | Residential | | | Commercial | | |
|---------------------------|-------------|-----------|------------|------------|----------|----------|
| | Home-Work | Home-Shop | Home-Other | Commute | Non-Work | Customer |
| Urban Trip Length (miles) | 10.8 | 7.3 | 7.5 | 9.5 | 7.4 | 7.4 |
| Rural Trip Length (miles) | 16.8 | 7.1 | 7.9 | 14.7 | 6.6 | 6.6 |
| Trip Speeds (mph) | 35.0 | 35.0 | 35.0 | 35.0 | 35.0 | 35.0 |
| % of Trips - Residential | 32.9 | 18.0 | 49.1 | | | |

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Changes made to the default values for Land Use Trip Percentages

The Trip Rate and/or Acreage values for Apartments low rise

have changed from the defaults 6.9/6.25 to 7.5/8.03

The Trip Rate and/or Acreage values for Condominium/townhouse general

have changed from the defaults 6.9/3.25 to 7.19/4.17

Changes made to the default values for Construction

The user has overridden the Default Phase Lengths

Architectural Coatings: # ROG/ft2 (residential) changed from 0.0185 to 0.0013

Architectural Coatings: # ROG/ft2 (non-res) changed from 0.0185 to 0.0013

Changes made to the default values for Area

The wood stove percentage changed from 35 to 0.

Alternative E Output

The wood fireplace percentage changed from 10 to 0.
 The natural gas fireplace percentage changed from 55 to 100.
 The landscape year changed from 2005 to 2007.
 The residential Arch. Coatings ROG emission factor changed from 0.0185 to 0.0013.
 The nonresidential Arch. Coatings ROG emission factor changed from 0.0185 to 0.0013.

Changes made to the default values for Operations

The operational emission year changed from 2005 to 2007.
 The operational winter selection item changed from 2 to 1.
 The operational summer selection item changed from 4 to 3.
 The home based work selection item changed from 8 to 7.
 The home based shopping selection item changed from 8 to 7.
 The home based other selection item changed from 8 to 7.
 The commercial based commute selection item changed from 8 to 7.
 The commercial based non-work selection item changed from 8 to 7.
 The commercial based customer selection item changed from 8 to 7.

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URBEMIS 2002 For Windows 8.7.0

File Name: C:\Program Files\URBEMIS 2002 Version
 8.7\Projects2k2\Alternative E.urb
 Project Name: Alternative E
 Project Location: Mountain Counties and Rural Counties
 On-Road Motor Vehicle Emissions Based on EMFAC2002 version 2.2

DETAIL REPORT (Pounds/Day - Summer)

Construction Start Month and Year: May, 2006
 Construction Duration: 15
 Total Land Use Area to be Developed: 12.2 acres
 Maximum Acreage Disturbed Per Day: 3 acres
 Single Family Units: 0 Multi-Family Units: 152
 Retail/Office/Institutional/Industrial Square Footage: 0

CONSTRUCTION EMISSION ESTIMATES UNMITIGATED (lbs/day)

| PM10 | | | | | | | PM10 | PM10 |
|----------------------------------|------|------|------|------|------|-------|------|------|
| Source | DUST | ROG | NOX | CO | SO2 | TOTAL | | |
| EXHAUST | | | | | | | | |
| *** 2006*** | | | | | | | | |
| Phase 1 - Demolition Emissions | | | | | | | | |
| Fugitive Dust | | - | - | - | - | 0.00 | | |
| - 0.00 | | | | | | | | |
| Off-Road Diesel | | 0.00 | 0.00 | 0.00 | - | 0.00 | | |
| 0.00 0.00 | | | | | | | | |
| On-Road Diesel | | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | |
| 0.00 0.00 | | | | | | | | |
| Worker Trips | | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | |
| 0.00 0.00 | | | | | | | | |
| Maximum lbs/day | | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | |
| 0.00 0.00 | | | | | | | | |
| Phase 2 - Site Grading Emissions | | | | | | | | |
| Fugitive Dust | | - | - | - | - | 30.00 | | |
| - 30.00 | | | | | | | | |

| | | Alternative E Output | | | | |
|---------------------------------|-------|----------------------|--------|--------|------|-------|
| Off-Road Diesel | | 18.64 | 127.87 | 148.05 | - | 5.27 |
| 5.27 | 0.00 | | | | | |
| On-Road Diesel | | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | | | | | |
| Worker Trips | | 0.18 | 0.37 | 4.07 | 0.00 | 0.02 |
| 0.01 | 0.01 | | | | | |
| Maximum lbs/day | | 18.82 | 128.24 | 152.12 | 0.00 | 35.29 |
| 5.28 | 30.01 | | | | | |
| Phase 3 - Building Construction | | | | | | |
| Bldg Const Off-Road Diesel | | 10.88 | 81.56 | 81.47 | - | 3.62 |
| 3.62 | 0.00 | | | | | |
| Bldg Const Worker Trips | | 0.36 | 0.22 | 4.55 | 0.00 | 0.09 |
| 0.00 | 0.09 | | | | | |
| Arch Coatings Off-Gas | | 0.00 | - | - | - | - |
| - | - | | | | | |
| Arch Coatings Worker Trips | | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | | | | | |
| Asphalt Off-Gas | | 0.00 | - | - | - | - |
| - | - | | | | | |
| Asphalt Off-Road Diesel | | 0.00 | 0.00 | 0.00 | - | 0.00 |
| 0.00 | 0.00 | | | | | |
| Asphalt On-Road Diesel | | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | | | | | |
| Asphalt Worker Trips | | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | | | | | |
| Maximum lbs/day | | 11.23 | 81.78 | 86.02 | 0.00 | 3.72 |
| 3.63 | 0.09 | | | | | |
| Max lbs/day all phases | | 18.82 | 128.24 | 152.12 | 0.00 | 35.29 |
| 5.28 | 30.01 | | | | | |

*** 2007***

Phase 1 - Demolition Emissions

| | | | | | | |
|-----------------|------|------|------|------|------|------|
| Fugitive Dust | | - | - | - | - | 0.00 |
| - | 0.00 | | | | | |
| Off-Road Diesel | | 0.00 | 0.00 | 0.00 | - | 0.00 |
| 0.00 | 0.00 | | | | | |
| On-Road Diesel | | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | | | | | |
| Worker Trips | | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | | | | | |
| Maximum lbs/day | | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | | | | | |

Phase 2 - Site Grading Emissions

| | | | | | | |
|-----------------|------|------|------|------|------|------|
| Fugitive Dust | | - | - | - | - | 0.00 |
| - | 0.00 | | | | | |
| Off-Road Diesel | | 0.00 | 0.00 | 0.00 | - | 0.00 |
| 0.00 | 0.00 | | | | | |
| On-Road Diesel | | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | | | | | |
| Worker Trips | | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | | | | | |
| Maximum lbs/day | | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | | | | | |

Phase 3 - Building Construction

| | | | | | | |
|----------------------------|------|-------|-------|-------|------|------|
| Bldg Const Off-Road Diesel | | 10.88 | 78.23 | 83.69 | - | 3.30 |
| 3.30 | 0.00 | | | | | |
| Bldg Const Worker Trips | | 0.33 | 0.20 | 4.28 | 0.00 | 0.09 |
| 0.00 | 0.09 | | | | | |

| | | Alternative E Output | | | | |
|----------------------------|------|----------------------|--------|--------|------|------|
| Arch Coatings Off-Gas | | 20.61 | - | - | - | - |
| Arch Coatings Worker Trips | | 0.32 | 0.17 | 3.61 | 0.00 | 0.09 |
| 0.00 | 0.09 | | | | | |
| Asphalt Off-Gas | | 0.28 | - | - | - | - |
| Asphalt Off-Road Diesel | | 5.25 | 31.62 | 44.62 | - | 1.09 |
| 1.09 | 0.00 | | | | | |
| Asphalt On-Road Diesel | | 0.08 | 1.59 | 0.31 | 0.00 | 0.04 |
| 0.04 | 0.00 | | | | | |
| Asphalt Worker Trips | | 0.02 | 0.01 | 0.26 | 0.00 | 0.01 |
| 0.00 | 0.01 | | | | | |
| Maximum lbs/day | | 37.76 | 111.79 | 136.10 | 0.00 | 4.62 |
| 4.43 | 0.19 | | | | | |
| Max lbs/day all phases | | 37.76 | 111.79 | 136.10 | 0.00 | 4.62 |
| 4.43 | 0.19 | | | | | |

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Phase 1 - Demolition Assumptions: Phase Turned OFF

Phase 2 - Site Grading Assumptions

Start Month/Year for Phase 2: May '06

Phase 2 Duration: 4.0 months

On-Road Truck Travel (VMT): 0

Off-Road Equipment

| No. | Type | Horsepower | Load Factor | Hours/Day |
|-----|--------------------------|------------|-------------|-----------|
| 1 | Concrete/Industrial saws | 84 | 0.730 | 10.5 |
| 2 | Excavators | 180 | 0.580 | 10.5 |
| 1 | Rough Terrain Forklifts | 94 | 0.475 | 10.5 |
| 1 | Rubber Tired Dozers | 352 | 0.590 | 10.5 |
| 1 | Rubber Tired Loaders | 165 | 0.465 | 10.5 |
| 1 | Scrapers | 313 | 0.660 | 10.5 |

Phase 3 - Building Construction Assumptions

Start Month/Year for Phase 3: Sep '06

Phase 3 Duration: 11.0 months

Start Month/Year for SubPhase Building: Sep '06

SubPhase Building Duration: 10.2 months

Off-Road Equipment

| No. | Type | Horsepower | Load Factor | Hours/Day |
|-----|--------------------------|------------|-------------|-----------|
| 1 | Concrete/Industrial saws | 84 | 0.730 | 10.5 |
| 1 | Cranes | 190 | 0.430 | 10.5 |
| 2 | Off Highway Tractors | 255 | 0.410 | 10.5 |
| 1 | Rough Terrain Forklifts | 94 | 0.475 | 10.5 |
| 2 | Tractor/Loaders/Backhoes | 79 | 0.465 | 10.5 |

Start Month/Year for SubPhase Architectural Coatings: Jul '07

SubPhase Architectural Coatings Duration: 1.0 months

Start Month/Year for SubPhase Asphalt: Jul '07

SubPhase Asphalt Duration: 0.8 months

Acres to be Paved: 1.9

Off-Road Equipment

| No. | Type | Horsepower | Load Factor | Hours/Day |
|-----|---------|------------|-------------|-----------|
| 1 | Graders | 174 | 0.575 | 10.5 |
| 1 | Pavers | 132 | 0.590 | 10.5 |

| | | | | |
|---|---------|-----------------------------|-------|------|
| 1 | Rollers | Alternative E Output 114 | 0.430 | 10.5 |
|---|---------|-----------------------------|-------|------|

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| AREA SOURCE EMISSION ESTIMATES (Summer Pounds per Day, Unmitigated) | | | | | |
|---|------|------|------|------|------|
| Source | ROG | NOx | CO | SO2 | PM10 |
| Natural Gas | 0.09 | 1.15 | 0.49 | 0 | 0.00 |
| Hearth - No summer emissions | | | | | |
| Landscaping | 0.22 | 0.01 | 1.44 | 0.00 | 0.00 |
| Consumer Prdcts | 7.44 | - | - | - | - |
| Architectural Coatings | 0.17 | - | - | - | - |
| TOTALS(lbs/day,unmitigated) | 7.92 | 1.15 | 1.93 | 0.00 | 0.01 |

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UNMITIGATED OPERATIONAL EMISSIONS

| | ROG | NOx | CO | SO2 | PM10 |
|---------------------------|-------|-------|--------|------|-------|
| Apartments low rise | 8.64 | 15.36 | 111.67 | 0.07 | 12.20 |
| Condo/townhouse general | 4.31 | 7.66 | 55.67 | 0.03 | 6.08 |
| TOTAL EMISSIONS (lbs/day) | 12.94 | 23.02 | 167.34 | 0.10 | 18.28 |

Does not include correction for passby trips.
Does not include double counting adjustment for internal trips.

OPERATIONAL (Vehicle) EMISSION ESTIMATES

Analysis Year: 2007 Temperature (F): 60 Season: Summer

EMFAC Version: EMFAC2002 (9/2002)

Summary of Land Uses:

| Unit Type | Acreage | Trip Rate | No. Units | Total Trips |
|------------------------------|---------|--------------------------|-----------|-------------|
| Apartments low rise | 8.03 | 7.50 trips/dwelling unit | 100.00 | 750.00 |
| Condo/townhouse general | 4.17 | 7.19 trips/dwelling unit | 52.00 | 373.88 |
| Sum of Total Trips | | | | 1,123.88 |
| Total Vehicle Miles Traveled | | | | 12,007.65 |

Vehicle Assumptions:

Fleet Mix:

| Vehicle Type | Percent Type | Non-Catalyst | Catalyst | Diesel |
|--------------------------|--------------|--------------|----------|--------|
| Light Auto | 55.20 | 1.80 | 97.80 | 0.40 |
| Light Truck < 3,750 lbs | 15.10 | 3.30 | 94.00 | 2.70 |
| Light Truck 3,751- 5,750 | 16.10 | 1.90 | 96.90 | 1.20 |

| Alternative E Output | | | | | |
|------------------------|---------------|------|-------|-------|--------|
| Med Truck | 5,751- 8,500 | 7.10 | 1.40 | 95.80 | 2.80 |
| Lite-Heavy | 8,501-10,000 | 1.10 | 0.00 | 81.80 | 18.20 |
| Lite-Heavy | 10,001-14,000 | 0.40 | 0.00 | 50.00 | 50.00 |
| Med-Heavy | 14,001-33,000 | 1.00 | 0.00 | 20.00 | 80.00 |
| Heavy-Heavy | 33,001-60,000 | 0.90 | 0.00 | 11.10 | 88.90 |
| Line Haul > 60,000 lbs | | 0.00 | 0.00 | 0.00 | 100.00 |
| Urban Bus | | 0.10 | 0.00 | 0.00 | 100.00 |
| Motorcycle | | 1.70 | 82.40 | 17.60 | 0.00 |
| School Bus | | 0.10 | 0.00 | 0.00 | 100.00 |
| Motor Home | | 1.20 | 8.30 | 83.30 | 8.40 |

Travel Conditions

| | Residential | | | Commercial | | |
|---------------------------|-------------|-----------|------------|------------|----------|----------|
| | Home-Work | Home-Shop | Home-Other | Commute | Non-Work | Customer |
| Urban Trip Length (miles) | 10.8 | 7.3 | 7.5 | 9.5 | 7.4 | 7.4 |
| Rural Trip Length (miles) | 16.8 | 7.1 | 7.9 | 14.7 | 6.6 | 6.6 |
| Trip Speeds (mph) | 35.0 | 35.0 | 35.0 | 35.0 | 35.0 | 35.0 |
| % of Trips - Residential | 32.9 | 18.0 | 49.1 | | | |

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Changes made to the default values for Land Use Trip Percentages

The Trip Rate and/or Acreage values for Apartments low rise have changed from the defaults 6.9/6.25 to 7.5/8.03
The Trip Rate and/or Acreage values for Condominium/townhouse general have changed from the defaults 6.9/3.25 to 7.19/4.17

Changes made to the default values for Construction

The user has overridden the Default Phase Lengths
Architectural Coatings: # ROG/ft2 (residential) changed from 0.0185 to 0.0013
Architectural Coatings: # ROG/ft2 (non-res) changed from 0.0185 to 0.0013

Changes made to the default values for Area

The wood stove percentage changed from 35 to 0.
The wood fireplace percentage changed from 10 to 0.
The natural gas fireplace percentage changed from 55 to 100.
The landscape year changed from 2005 to 2007.
The residential Arch. Coatings ROG emission factor changed from 0.0185 to 0.0013.
The nonresidential Arch. Coatings ROG emission factor changed from 0.0185 to 0.0013.

Changes made to the default values for Operations

The operational emission year changed from 2005 to 2007.
The operational winter selection item changed from 2 to 1.
The operational summer selection item changed from 4 to 3.
The home based work selection item changed from 8 to 7.
The home based shopping selection item changed from 8 to 7.
The home based other selection item changed from 8 to 7.
The commercial based commute selection item changed from 8 to 7.
The commercial based non-work selection item changed from 8 to 7.
The commercial based customer selection item changed from 8 to 7.